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Age and Length Composition of the Sardine Catch off the Pacific Coast of the United States and Canada, 1941-42 through 1946-47

by

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FOREWORD

This report results from one phase of the cooperative investigation of the Pacific sardine carried on by the Fisheries Research Board of Canada, the Province of British Columbia, the Washington Department of Fisheries, the Fish Commission of Oregon, the California Division of Fish and Game, and the U. S. Fish and Wildlife Service.

Following this initial publication it is hoped that summaries of the age composition of the sardine catch can be published annually.

April, 1948.

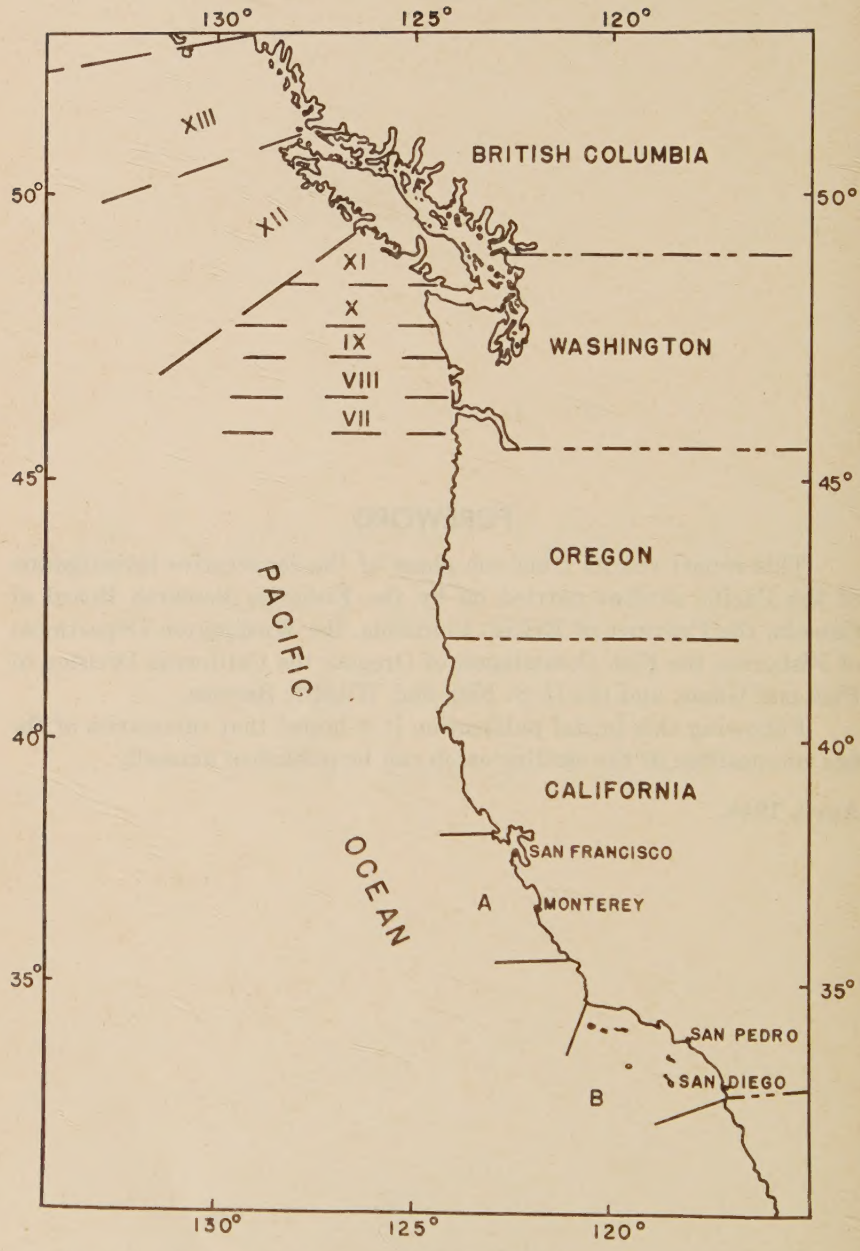

FIGURE 1. Sardine fishing areas. VII-XIII, areas in the Pacific Northwest fishery. A, San Francisco-Monterey fishing grounds. B, Southern California fishing grounds.

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INTRODUCTION

Since November, 1919, the California Division of Fish and Game has been gathering data to contribute to the understanding of causes underlying changes in abundance of the sardine,[1] *Sardinops caerulea*. A knowledge of the relative proportions of the various age groups of fish in the population is an important element in such studies.

Prior to 1924, an attempt was made by Thompson (1926a) and assistants to read the age marks on the scales and otoliths of this species, but results did not prove satisfactory. However, an indirect method of assessing age by tracing dominant size groups through the fishery was continued. (Thompson, 1926b; Scofield, 1926; Higgins, 1926; Clark, 1931, 1936, 1939). During the period 1928-1933, a study of otoliths of sardines taken in the California fishery was made by H. C. Godsil, but this also proved unsatisfactory. In March, 1938, Walford and Mosher (1943a, 1943b) of the U. S. Fish and Wildlife Service started examination of the scales and otoliths of sardines, commencing with the young and later including older fish. This study established the validity of the method of reading scales to determine age in the sardine. The scale method was recommended as more advantageous in some respects than the otolith method, particularly after a rather simple method of mounting scales dry and projecting their enlarged images was developed.

Starting with the 1941-42 season in California a comprehensive program for scale collecting and age reading was undertaken jointly by the U. S. Fish and Wildlife Service and the California Division of Fish and Game. The Fisheries Research Board of Canada, the Washington State Department of Fisheries, and the Fish Commission of Oregon participated in the work by adding the collection of scales from sardines in northern waters. Their collections were included in the age-reading project. This report deals with the first six seasons of age determinations and presents the age composition of the catch without interpretation of the data.

During these six seasons determinations of age from scales were made by biologists of the Fish and Wildlife Service and California Division of Fish and Game. These were: Lionel A. Walford, Kenneth H. Mosher, Wm. M. Morton, Osgood Smith, Mary Pavlicevich, and Frances Felin, of the federal agency; and Julius B. Phillips and Anita Daugherty of the state agency. For 1941-42, age determinations were made by Walford, Mosher, and Phillips; for 1942-43 by Walford, Mosher, Morton, and Phillips; for 1943-44, by Walford, Smith, Felin, and Phillips; for

[1] Also known as Pacific pilchard.

1944-45, by Smith, Felin, Pavlicevich, and Phillips; for 1945-46 and 1946-47, Felin, Phillips, and Daugherty.

The cooperative nature of the work was such that many other persons of the various agencies were involved—such as those sampling the catch in all the ports, mounting scale samples, processing, and tabulating the data which remain on file in the Fish and Wildlife Service laboratory at Stanford University. The helpful cooperation of all these persons is gratefully acknowledged.

We wish to thank Frances N. Clark of the California Division of Fish and Game for her outline of the methods of computing numbers of fish and John L. Hart of the Fisheries Research Board of Canada for his addenda in connection with estimates of numbers of fish and with sampling in the Pacific Northwest.

It is also our wish to express gratitude for the critical interest and help accorded by O. E. Sette, of the U. S. Fish and Wildlife Service, from the inception of the study and development of method by Walford and Mosher up to the present summary of data in the form of tables.

COLLECTION OF SCALES

In California, scales were taken from one-fifth of the fish included in sampling the catch for length composition. During the first four seasons under consideration, sampling was done daily at the three California ports, five samples of 50 fish each being taken each day when possible. In the 1945-46 and 1946-47 seasons the sampling was curtailed to include five samples each week in each of the three ports during the fishing season.

During the 1941-42 and 1942-43 seasons, the scales were taken from the first 10 fish that had satisfactory scales remaining on the body. It had been assumed at the time that fish which had lost their scales would occur in a random manner as far as length and sex were concerned. But a test made in 1942-43 revealed that the larger fish were over-represented in the scale samples, no doubt because smaller fish had lost their scales more frequently than larger fish. This made it necessary to adjust the data obtained for the 1941-42 and 1942-43 seasons. Values for those seasons in the following tables are on the adjusted basis. Elbert H. Ahlstrom, U. S. Fish and Wildlife Service, who supervised the task of weighting these data, found in addition to the above error, a personal bias wherein certain samplers tended to select the larger fish for the scale samples. But this was less important than the loss of scales from smaller fish.

During the 1943-44 season a system of scale sampling was devised wherein both biases were corrected. The sampler counted out from a bucket, 50 fish representing the regular sample, laying aside every fifth fish. The sizes of these 10 individuals represented the lengths [2] of fish from which scales were to be obtained. If satisfactory scales could not be found on any one of the 10 fish, another fish within 5 mm. of the same length was substituted. Tests have shown that the scale samples so collected were not materially biased.

[2] Body length, in millimeters, was measured from the tip of the jaws when closed to the termination of the fleshy part of the caudal peduncle after the scales were scraped away. Lengths were tabulated in two millimeter groups, the odd number being combined with the next higher even number.

The sampling methods in the Pacific Northwest differed in some details from those of California. In British Columbia, according to Hart, random samples of 100 fish (instead of 50) were taken from the first load which could be conveniently sampled on each day that fish were landed. Second and third samples were taken when opportunity offered. Length, weight and sex determinations were made for each fish in the entire sample, and scales were taken from every tenth fish. If any of the first 10 failed to have sufficient scales the first fish encountered in the sample in the same centimeter size group was substituted. During most of the years of the investigation British Columbia scales were mounted in the field at the time of collection. Techniques of sampling in Washington and Oregon were variable but essentially similar to those in California.

Usually scales taken from each fish were placed in a small vial containing water to which had been added a small amount of phenol, about 2 percent, to prevent the development of mold. Thus, the scales were kept moist until they could be cleaned and mounted dry between two slides. As standard practice six scales were selected for mounting, and only infrequently were as many as six not available. The only information placed on a slide was its serial number. Practically all the ages reported here are from scales preserved and mounted in this way; a few had been dried in envelopes at the time of collection and required supplementary soaking and washing in about 10 percent sodium hydroxide before mounting.

AGE DETERMINATION

The scales were read at a magnification of 30 diameters, obtained by projecting the scale image through a compound microscope with a 45-degree prism placed over the ocular. The prism reflected the image across to a mirror placed at a 45-degree angle and this in turn reflected the image downward to the table top. A special card ruled in millimeters was laid in the longitudinal axis of the scale image with the zero line at the posterior edge of the sculptured part of the scale and the position of each annulus and the margin of the scale marked on the card.

The scale readings were made by a group of three or four biologists of the federal and state agencies in such a manner that the results of the several persons could be mutually corroborative. The mounted slides were divided among readers by dealing them out in rotation. Each person made his interpretations of age independently, marking the positions of annual rings on the special card. Information regarding length, sex, date and other pertinent data were subsequently entered on the same card. No slides of scales were discarded as unreadable unless the slide contained all regenerated scales or more than one-third of the scales were from more than one fish.[3] The number in both of the foregoing categories was insignificant.

During the period 1941-42 through 1944-45, when intensive sampling supplied large numbers of scale readings, each reader's results were tabulated by year-classes. If, according to a chi-square test, the resulting

[3] Adventitious scales occasionally adhere to an individual from which scales are taken and are accidentally included in the sample.

year-class compositions of the several readers differed significantly [4] from the average composition of all readers, the year-classes causing the discrepancies were re-examined by all readers together. In addition, all fish that had five or more rings were re-read by a different reader or all readers together. The final age determinations were summarized by lunar month and season.

After the sampling was reduced from a daily to a weekly basis, the numbers were too small to justify the use of the chi-square test. Therefore, in 1945-46 and 1946-47 duplicate readings were made on all scale samples in lieu of testing the readers' results statistically. Disagreements were resolved by all readers together.

The final age determinations were summarized by seasons, as defined by Clark (1940) to include the commercial take from June through the next May. The California fishery begins in late summer and autum and extends into winter so that the fishing year is designated in the tables as 1941-42, etc.

In the Pacific Northwest the fishery begins in June and seldom carries into the following winter (1941, 1942 and 1944 were exceptions). Following local practice the British Columbia, Washington and Oregon data are designated by calendar year in tables where they appear separately. Where occurring in summary they are given the seasonal designation as with California data.

Tables 1-37 show, by seasons, the length composition of each age group in the samples for different areas (Fig. 1) along the coast in British Columbia, Washington and Oregon. Tables 38-87 show, similarly, the same data for California by ports, together with the Pacific Northwest summary, and a summary for the entire coast. Lengths are tabulated by sexes separately (M., F.) and sexes combined (T.). Fish that were not sexed or fish for which no lengths were recorded were entered only in the T. column.

As age is estimated from the number of annual rings present on the scale, Age 0 represents fish that are in their first year of life before the first winter ring is formed. Age 1 represents fish that have formed one winter ring between late fall and early spring following hatching. Thus, a fish which is caught in the winter fishery and shows one annulus well inside the margin of the scale is in its second year of life. Similarly a fish caught during the 1941-42 season and having two well-defined rings would be in its third year of life and assignable to the 1939 year-class.

Fish collected from late fall to early spring which show a ring close to the margin were assigned to a particular year-class according to an objective method of determining whether or not the submarginal ring should be classed as a "new ring." (Walford and Mosher, 1943b.) If a

[4] In these tests the 5 percent level of significance was selected. If the chi-square values indicated a probability greater than $P = .05$, the deviations of the readers from expected, or "theoretical," numbers at each age were considered to be due to random variation in the samples read by each person. If, conversely, the P value was less than .05 the divergence between readers in interpretation of ages was taken to be in excess of that due to chance alone. Since there is inherent in the 5 percent limit the probability that 1 time in 20 the low P value will occur by chance, some groups of samples undoubtedly were reviewed unnecessarily and some age readings were revised although perhaps originally correct.

This method of checking reader accuracy was utilized until 1945-46 when duplicate readings were made of all scale samples. In the 1943-44 season at San Francisco, however, the samples of fish as they were taken were ranked according to size and hence roughly by age as well. The scale samples dealt out to each reader were similarly stratified, and uniformity in age-composition among the several readers' portions was greater than would be expected due to chance. It is probable that real errors in readings were masked, since uniformity of the material artificially enhanced agreements, and high P values resulted from the stratified, non-random nature of samples rather than essential goodness of agreement in interpretation of ages by different readers.

new ring was present the fish was assigned to the same year-class as those which had not yet shown the new winter mark, or in which it was in process of forming.

Tables 88-93 give age composition of the catch in terms of numbers of fish caught in each port in California and in each separate political subdivision of the Pacific Northwest.

Fishing in California waters is carried on in the dark of the moon, and the lunar month, from full moon to full moon, is the time unit used. The lunar months in Tables 88-93 are designated by the name (in quotation marks) of the nearest calendar month, and their corresponding calendar dates are given in Table 100.

For the California fishery the calculations of the number of fish were based on the weight of the fish in the regular samples taken from the commercial catch. Each sample of 50 fish was weighed and the average weight of the fish determined. For seasons 1941-42 through 1944-45 when sampling was carried on daily, the total poundage in the daily catch was converted into numbers of fish by dividing by the average weight of all fish in each day's samples. For seasons 1945-46 and 1946-47, when sampling was on a weekly basis, the total weekly poundage was divided by the average weight of all fish in each week's samples. These daily or weekly computed numbers of fish were summed to give the estimated total number in the catch for each lunar month at each port as recorded in Tables 88-93. Samples were not collected at San Diego, and the data for this port were calculated by applying the San Pedro average weights and age composition values to the tons of sardines landed at San Diego.

In the Pacific Northwest, according to Hart, fish in regular random samples were weighed individually and the average weight of all fish sampled during the entire season calculated by the Canadian investigators. In some seasons these unweighted averages were used to convert poundages taken in the whole season's catch in British Columbia into numbers of individual fish. In other seasons the sizes of sardines taken in the Pacific Northwest showed recognizable changes during the season. For these years data for landings and average weights were tabulated by 10-day periods during the season. Average weights of fish for each 10-day period were multiplied by the tons landed in that period and the figures so obtained summed and divided by the total season's tonnage. Use of this weighted average weight resulted in estimates of total numbers for the season that were within two percent of the estimates based on unweighted averages except in 1942. The numbers of fish given in Tables 88 to 93 are the estimates based on unweighted average weights in all seasons except 1941, 1942 and 1945. For 1942 the alternative number based on unweighted average weight was 391,000,000.

In the seasons 1941 through 1944 the tonnages landed in Washington and Oregon were converted to the numbers of fish by using the same ratio between tons and numbers as was calculated each season for the British Columbia fishery. In 1945 and 1946 the season's tonnage in Washington and Oregon was divided by the average weight of the fish taken in the Washington samples to estimate the total number of fish in the catch of the two states.

Tables 94-99 show, by seasons, the mean length (M.) and standard error (S. E.) of the mean, and the number (No.) of fish upon which these are based for each year-class in each of the major regional subdivisions.

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TABLE 1

LENGTH COMPOSITION OF THE 1940 YEAR-CLASS, AGE 1, BY AREAS IN THE PACIFIC NORTHWEST IN 1941

Area	British Columbia									Washington									Oregon								
	XIII			XI			Total			XI			VIII			VII			Total			VIII			VII			Unrecorded			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
130														1	1					1	1												
132																																	
134																																	
136																																	
138																																	
140																																	
142																		1			1												
144																																	
146																																	
148																1		1	1		1												
150																																	
152																																	
154																																	
156																																	
158													1		1				1		1												
160					1	1		1	1						1						1												
162					1	1		1	1				1		1			3	1		4												
164																		1			1					1	1					1	1
166																		1			1												
168		1	1					1	1								1	2		1	2					1	1				1	1
170										1	1	2					2	3	1	3	5												
172																						1		1							1		1
174																						1		1				1		1	2		2
176	2		2		2	2	2	2	4									1			1												
178					1	1		1	1																								
180																										1	1					1	1
182																																	
184																																	
186																																	
188																																	
190				1		1	1		1																								
192																																	
194				1		1	1		1																								
Total	2	1	3	2	5	7	4	6	10	1	1	2	2	1	4[1]	1	3	13[1]	4	5	19[1]	2		2		3	3	1		1	3	3	6

[1] Includes some fish, sex unknown.

TABLE 2

LENGTH COMPOSITION OF THE 1939 YEAR-CLASS, AGE 2, BY AREAS IN THE PACIFIC NORTHWEST IN 1941

	British Columbia														
Area	XIII			XII			XI			X			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
160															
162								1	1					1	1
164								2	2					2	2
166							1		1				1		1
168							1	4	5				1	4	5
170				1		1	1		1				2		2
172	1		1					2	2				1	2	3
174							4	1	5				4	1	5
176		1	1				4	2	6				4	3	7
178	1		1	2		2	4	1	5				7	1	8
180	1		1		1	1	1	4	5				2	5	7
182	1		1	1		1	4	3	7		1	1	6	4	10
184	1	2	3				3	6	10				4	8	13
186				2		2	3	7	10				5	7	12
188		1	1	1		1	2	6	8				3	7	10
190	2	1	3	3		3	9	1	10				14	2	16
192				1	1	2	5	3	10	1		1	7	4	13
194		1	1		1	1	2	8	10				2	10	12
196	4	3	7	3	1	4	2	6	8				9	10	19
198	3	4	7	1	3	4	7	5	14				11	12	25
200				1	2	3	5	4	10				6	6	13
202	1		1	1	3	4	6	5	12				8	8	17
204		3	3		2	2	6	3	9				6	8	14
206	1	1	2	2	1	3	1	3	5				4	5	10
208				1	1	2	2	3	5				3	4	7
210					1	1	1	3	4				1	4	5
212				1	1	2	2	2	4				3	3	6
214	1		1				1	1	4				2	1	5
216					1	1	2		2				2	1	3
218								1	1					1	1
220							1		1				1		1
222								1	1					1	1
224															
226															
228															
230															
232															
234															
236		1	1											1	1
Totals	17	18	35	21	19	40	80	88	178[1]	1	1	2	119	126	255[1]

[1] Includes some fish, sex unknown.

TABLE 2—Continued

LENGTH COMPOSITION OF THE 1939 YEAR-CLASS, AGE 2, BY AREAS IN THE PACIFIC NORTHWEST IN 1941

Area	Washington																				
	XI			X			IX			VIII			VII			Unrecorded			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
160												2									2
162															2						2
164																					
166										1		1	1		2				2		3
168												1	1		2				1		3
170										1		2			2				1		4
172	1		1								1	4						1	1	1	6
174										3	1	8			3			1	3	1	12
176															2						2
178						1				2		11			2				2		14
180	1		1						1		1	8			4				1	1	14
182										3	1	17			5			1	3	1	23
184									2	2	1	17		1	6				2	2	25
186		1	1						1	2	2	17			3			2	2	3	24
188	1		1							2	2	17			1			2	3	2	21
190									2	3	2	12			1				3	2	15
192		1	1			1			1	1		9			1			2	1	1	15
194		2	2						2	3	1	11		1	2			1	3	4	18
196	2		3							1		2			1			1	3		7
198	1		2								1	3			1				1	1	6
200		1	1						3	1		3						1	1	1	8
202	1		1								3	6							1	3	7
204	1		1							1	1	3	1		2				3	1	6
206	3	5	8							1		2							4	5	10
208		1	1						1		1	2			1					2	5
210		1	1								1	1						1		2	3
212	1		1																1		1
214									1	1	1	2							1	1	2
216																					1
218			1																		1
220																					
222						1															1
224	1	1	2									1							1	1	3
226																					
228																					
230																					
232																					
234																					
236																					
Totals	13	13	29[1]	--	--	3[1]	--	--	14[1]	28	20	162[1]	3	2	43[1]	--	--	13[1]	44	35	264[1]

[1] Includes some fish, sex unknown.

TABLE 2—Continued

LENGTH COMPOSITION OF THE 1939 YEAR-CLASS, AGE 2, BY AREAS IN THE PACIFIC NORTHWEST IN 1941

Area	Oregon											
	VIII			VII			Unrecorded			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T
160												
162												
164												
166							1	--	1	1	--	1
168							--	1	1	--	1	1
170												
172												
174							1	--	1	1	--	1
176							--	1	1	--	1	1
178				1	--	1	1	--	1	2	--	2
180	--	1	1	1	--	1	3	1	4	4	2	6
182	1	--	1				5	4	9	6	4	10
184				1	--	1	3	5	8	4	5	9
186	3	--	3				11	7	18	14	7	21
188				--	2	2	9	1	10	9	3	12
190				2	1	3	4	8	12	6	9	15
192	--	1	1	--	1	1	5	5	10	5	7	12
194				1	--	1	8	10	18	9	10	19
196	--	1	1	1	1	2	2	6	8	3	8	11
198				2	--	2	2	7	9	4	7	11
200							2	5	7	2	5	7
202							3	6	9	3	6	9
204												
206	1	--	1	--	1	1	--	3	3	1	4	5
208							1	1	2	1	1	2
210							1	--	1	1	--	1
212												
214				1	--	1				1		1
216	--	1	1		1	1				--	2	2
218				1	--	1	1	--	1	2	--	2
220												
222												
224												
226												
228												
230												
232												
234												
236												
Totals	5	4	9	11	7	18	63	71	134	79	82	161

TABLE 3

LENGTH COMPOSITION OF THE 1938 YEAR-CLASS, AGE 3, BY AREAS IN THE PACIFIC NORTHWEST IN 1941

Area	British Columbia														
	XIII			XII			XI			X			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
164				--	1	1							--	1	1
166															
168															
170															
172				--	1	1							--	1	1
174															
176															
178															
180															
182							2	--	2				2	--	2
184							1	--	1				1	--	1
186							2	--	2				2	--	2
188															
190															
192							--	1	1				--	1	1
194															
196	1	--	1				2	1	3				2	1	3
198							--	2	2				1	2	3
200				1	--	1	1	3	4				1	3	4
202	1	--	1	--	1	1	2	--	2				3	--	3
204	--	1	1	1	--	1	3	--	3				4	1	5
206				1	1	2	1	1	2				2	2	4
208							3	3	6				4	4	8
210				1	--	1	--	1	1				--	1	1
212				2	2	4	1	2	3				2	2	4
214				1	--	1	2	2	4				4	4	8
216				2	2	4	1	1	2	--	1	1	2	2	4
218				2	1	3	2	3	5	1	--	1	5	5	10
220	2	1	3	--	1	1	5	2	7				7	3	10
222				3	--	3	4	2	6				6	4	10
224	1	--	1	2	4	6	3	3	6				6	3	9
226	1	1	2	3	3	6	6	--	6	1	1	2	10	5	15
228							4	3	7				8	7	15
230							3	1	4				3	1	4
232							1	--	1				1	--	1
234				--	1	1	--	2	2				--	3	3
236	--	1	1				--	1	1				--	2	2
238				--	1	1	--	1	1	--	1	1	--	3	3
240				1	1	2							1	1	2
242							--	1	1				--	1	1
244															
246	--	1	1										--	1	1
248															
250															
252															
254															
256															
258															
260							--	1	1				--	1	1
Total	6	5	11	20	20	40	49	37	86	2	3	5	77	65	142

TABLE 3—Continued

LENGTH COMPOSITION OF THE 1938 YEAR-CLASS, AGE 3, BY AREAS IN THE PACIFIC NORTHWEST IN 1941

Area	Washington																	
	XI			IX			VIII			VII			Unrecorded			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
164																		
166																		
168																		
170																		
172																		
174																		
176																		
178										1	1	2				1	1	2
180																		
182																		
184												1						1
186																		
188							1		1							1		1
190							1		1							1		1
192																		
194	1		1				1	1	3							2	1	4
196								2	2								2	2
198							2		3							2		3
200																		
202							2	1	3							2	1	3
204		1	1														1	1
206							1		1							1		1
208									2									2
210	1		1			1	2	2	5							3	2	7
212							1	1	4							1	1	4
214	1		1				2	1	5			2				3	1	8
216			1				1	1	3							1	1	4
218			1				3	2	6							3	2	7
220							2		3							2		3
222							2	3	5			1				2	3	6
224		2	3				3	3	9			1			1	3	5	14
226			1				1	4	8			1				1	4	10
228	1		1			1		4	4							1	4	6
230	1	1	2					2	2							1	3	4
232							1		2							1		2
234								3	3								3	3
236								1	1								1	1
238																		
240																		
242								1	1								1	1
244																		
246																		
248																		
250																		
252																		
254																		
256																		
258																		
260																		
Total	5	4	13[1]			2[1]	26	32	77[1]	1	1	8[1]			1[1]	32	37	101[1]

[1] Includes some fish, sex unknown.

TABLE 3—Continued

LENGTH COMPOSITION OF THE 1938 YEAR-CLASS, AGE 3, BY AREAS IN THE PACIFIC NORTHWEST IN 1941

Area	Oregon								
	VII			Unrecorded			Total		
Length mm.	M	F	T	M	F	T	M	F	T
164									
166									
168									
170									
172									
174									
176									
178									
180									
182									
184									
186									
188	1	--	1	2	--	2	3	--	3
190	--	2	2	1	1	2	1	3	4
192	1	2	3	--	2	2	1	4	5
194	1	--	1	--	1	1	1	1	2
196	1	--	1				1	--	1
198	1	--	1	1	1	2	2	1	3
200				1	--	1	1	--	1
202									
204	2	--	2				2	--	2
206									
208				2	--	2	2	--	2
210	1	--	1	1	--	1	2	--	2
212	2	--	2				2	--	2
214									
216	3	--	3	1	--	1	4	--	4
218				--	1	1	--	1	1
220	--	1	1	--	2	2	--	3	3
222	1	2	3	1	--	1	2	2	4
224	1	1	2				1	1	2
226	--	2	2	--	1	1	--	3	3
228	2	--	2				2	--	2
230									
232	--	3	3	--	1	1	--	4	4
234									
236	1	--	1	--	--	--	1	--	1
238									
240									
242									
244									
246									
248									
250									
252									
254									
256									
258									
260									
Total	18	13	31	10	10	20	28	23	51

TABLE 4

LENGTH COMPOSITION OF THE 1937 YEAR-CLASS, AGE 4, BY AREAS IN THE PACIFIC NORTHWEST IN 1941

Area	British Columbia															Washington															Oregon								
	XIII			XII			XI			X			Total			XI			X			IX			VIII			VII			Total			VII			Unrecorded			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
200																																		1		1				1		1
202																									1						1											
204																									1						1											
206																									1						1											
208																									2						2											
210							1		1	1		1	2		2										1						1											
212										1		1	1		1																											
214				1		1	2		2				3		3							1			2	1	6				2	1	7									
216				3		3		2	2				3	2	5										4		4				4		4	1		1				1		1
218				2	2	4	5	1	6				7	3	10			1				1			1		1				1		4	2		2				2		2
220	1		1	2		2	2		2		1	1	5	1	6										2	1	6				2	1	6	1		1	1		1	2		2
222	3	1	4	3	2	5	5	1	6	1		1	12	4	16										5	2	11				5	2	11	2		2	1	1	2	2	1	3
224	5		5	3	3	6	11	3	14				19	6	25	1		1				1			4	2	9				5	2	11		2	2	1		1	2	1	3
226	2	1	3	11	2	13	8	7	15				21	10	31	2		2		1	1				1	3	7		1	1	3	4	11	2	2	4		1	1	2	3	5
228	5	1	6	7	4	11	14	3	17				26	8	34	2		3				3			2	4	7				4	4	13		1	1	1		1	1	2	3
230	2	1	3	6	7	13	11	6	17		1	1	19	15	34	2		2				1			3	5	9	1		1	6	5	13		2	2	1		1	1	2	3
232	1	4	5	6	8	14	7	11	18	1	1	2	15	24	39		2	2							4	5	12		1	1	4	8	15	1	2	3	1		1	2	2	4
234		2	2	7	6	13	3	10	13	1		1	11	18	29	1	3	4							4	5	12		1	1	5	9	17	1		1				1		1
236		2	2	4	5	9	5	4	9		1	1	9	12	21	1	1	2				1			2		3				3	1	6		3	3					3	3
238		2	2	1	7	8	3	5	8				4	14	18	1		3								2	2				1	2	5	1		1				1		1
240		2	2	1	3	4	3	3	6				4	8	12							2			1	1	3				1	1	5									
242					4	4	1	6	7		1	1	1	11	12	1		1									1				1	1	3									
244					2	2	1	1	2				1	3	4		1	1								1	1					2	2									
246							1	1	2				1	1	2			1				2					1						4									
248	1		1					1	1				1	1	2											1	1					1	1									
250					1	1								1	1											1	1					1	1									
Totals	20	16	36	57	56	113	83	65	148	5	5	10	165	142	307	11	7	23[1]			1[1]			12[1]	35	34	103[1]	1	4	6[1]	47	45	145[1]	12	12	24	5	2	7	17	14	31

[1] Includes some fish, sex unknown.

TABLE 5

LENGTH COMPOSITION OF THE 1936 YEAR-CLASS, AGE 5, BY AREAS IN THE PACIFIC NORTHWEST IN 1941

Area	British Columbia															Washington																		Oregon								
	XIII			XII			XI			X			Total			XI			X			IX			VIII			VII			Total			VII			Unrecorded			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
212																											1			1												
214																																											
216				1		1				1		1	2		2																										
218							1		1				1		1										1		1														
220				2		2		1	1				2	1	3										1		1														
222	1		1		1	1	4		4				5	1	6							1		1	3	2	4	1		1	1		1	2		2					
224				6		6	3		3	1		1	10		10							1		1	1		2	1		1				1		1					
226	3	1	4	4	3	7	1	1	2	1		1	9	5	14										3	1	6	1		1				1		1					
228		2	2	5	4	9	5	1	6				10	7	17	1		1							2	3	5	1		1				1		1					
230	2	5	7	3	4	7		3	3				5	12	17											1	1														
232	2	1	3	4	6	10	7	2	9		1	1	13	10	23										2		3														
234	1	2	3	5	2	7	2	3	5				8	7	15		1	1							2		4		1												
236	2	2	4	2	5	7	3	2	5	1		1	8	9	17	2		2									1														
238	2	2	4	4	4	8	7	4	11				13	10	23		2	3							1	1	3														
240		4	4	5	5	10	5	4	9				10	13	23	2		2							1	2	4														
242		2	2	1	5	6	1	4	5				2	11	13	2	3	5								2	2														
244		1	1	4	2	6	1	5	6		2	2	5	10	15			1																							
246	2	1	3	1	5	6	3	3	6				6	9	15			2			1						1														
248					1	1		3	3					4	4	1		1																							
250	1	2	3					2	3				2	4	6																										
252		1	1		1	1		4	4					6	6			1																							
254								1	1					1	1			1																							
256					2	2	1	1	2				1	3	4																										
258																																									
260								1	1					1	1										1	1															
262		1	1											1	1																										
Totals	16	27	43	47	50	97	45	45	90	4	3	7	112	125	237	8	6	20[1]			1[1]			3[1]	11	14	45[1]	3	1	5[1]	22	21	74[1]	6	8	14	2	4	6	8	12	20

[1] Includes some fish, sex unknown.

TABLE 6

LENGTH COMPOSITION OF THE 1935 YEAR-CLASS, AGE 6, BY AREAS IN THE PACIFIC NORTHWEST IN 1941

Area	British Columbia															Washington																					Oregon								
	XIII			XII			XI			X			Total			XI			X			IX			VIII			VII			Total			VII			Unrecorded			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
210																											1																	
212																																												
214																																												
216																																												
218																											1																	
220																																												
222	1		1		1	1							1	1	2																												
224							2	1	3				2	1	3																												
226	1		1	1		1							2		2									1	1				1	1													
228							1	1	2				1	1	2									1		1			1		1												
230					1	1								1	1																												
232				2		2	1		1				3		3	1		1										1		1													
234		1	1	1		1		1	1	1		1	2	2	4		1	1						1		1		1	1	2													
236	1	1	2	2		2	1	1	2				4	2	6										2	2			2	2													
238	5	1	6	1	1	2							6	2	8										1	1			1	1													
240		1	1	1		1		1	1				1	2	3									1		1			1	1	1		1	1		1	2		2			
242	2		2	3		3	1	2	3				6	2	8		1	1							2	2			3	3													
244	2		2	1	2	3	5	1	6				8	3	11		2	2							1	2			3	4													
246	1		1	2	2	4	2	3	5				5	5	10	1		1									1	1		2													
248				1	2	3							1	2	3								1	1		1			1		2												
250					1	1		1	1					2	2		1	1							2	2			3	3													
252	2		2				1		1		2	2	3	2	5										1	1			1	1													
254		1	1	2	1	3	1	1	2				3	3	6																											
256								1	1					1	1																											
258																																												
260																											1																	
262																																												
264																				1																							
266																											1			1													
268																	1													1													
Totals	15	5	20	17	11	28	15	14	29	1	2	3	48	32	80	2	5	8[1]	-	-	1[1]	-	-	1[1]	4	10	18[1]	-	-	2[1]	6	15	30[1]	1	-	1	1	-	1	2	-	2

[1] Includes some fish, sex unknown.

TABLE 7

LENGTH COMPOSITION OF THE 1934 YEAR-CLASS, AGE 7, BY AREAS IN THE PACIFIC NORTHWEST IN 1941

Area	British Columbia												Washington										Oregon		
	XIII			XII			XI			X			Total			XI			IX			VIII			Total			VII		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
204	--	1	1										--	1	1															
206																														
208																														
210																														
212																														
214																														
216																														
218																														
220																														
222	1	--	1										1	--	1															
224	1	--	1										1	--	1															
226							1	--	1				1	--	1															
228	--	1	1										--	1	1							1	--	1	1	--	1			
230	1	--	1	1	--	1				1	--	1	3	--	3															
232	1	--	1	--	1	1							1	1	2															
234																						1	1	2	1	1	2			
236																														
238	1	--	1										1	--	1															
240							1	1	2				1	1	2															
242	2	--	2										2	--	2	--	1	1	--	--	1				--	1	2			
244				--	1	1	1	1	2				1	2	3									1	--	--	1	--	1	1
246				1	--	1							1	--	1	2	--	3							2	--	3			
248	--	1	1	1	1	2							1	2	3															
250				1	--	1	--	1	1				1	1	2							--	1	2	--	1	2			
252	--	2	2	1	--	1	--	1	1				1	3	4													--	1	1
254	--	1	1	1	--	1							1	1	2							--	1	2	--	1	2	--	1	1
256				--	1	1	1	--	1				1	1	2							1	--	1	1	--	1			
258	--	1	1										--	1	1															
260	--	1	1					2	2				--	3	3							--	1	1	--	1	2			
262																--	--	1							--	--	1			
264				--	1	1	--	1	1				--	2	2				--	--	1				--	--	1			
266							--	1	1				--	1	1															
268																														
270				--	1	1							--	1	1								1	1	--	1	1			
Totals	7	8	15	6	6	12	4	8	12	1	--	1	18	22	40	2	1	6[1]	--	--	2[1]	3	5	11[1]	5	6	19[1]	--	3	3

[1] Includes some fish, sex unknown.

TABLE 8

LENGTH COMPOSITION OF THE 1933 YEAR-CLASS, AGE 8, BY AREAS IN THE PACIFIC NORTHWEST IN 1941

Area	British Columbia															Washington										Oregon		
	XIII			XII			XI			X			Total			XI			VIII			VII			Total			VII		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
236				1	--	1							1	--	1															
238				1	--	1							1	--	1															
240																			--	1	1				--	1	1			
242																			1	--	1				1	--	1			
244																														
246																			--	--	1	--	1	1	--	1	2			
248				2	--	2				1	--	1	3	--	3	--	--	1								--	1	1	--	1
250	1	--	1	1	--	1				1	--	1	3	--	3															
252	2	--	2										2	--	2															
254	--	1	1										--	1	1															
256	1	--	1	--	1	1							1	1	2				--	1	2				--	1	2			
258							--	1	1				--	1	1	--	--	1							--	--	1	--	1	1
260	1	--	1	--	1	1							1	1	2				--	--	1				--	--	1			
262	--	1	1										--	1	1				--	--	1				--	--	1			
264																			--	1	1				--	1	1			
266																						--	1	1	--	1	1			
268																														
270																														
272																														
274																														
276																														
278																														
280							--	1	1				--	1	1															
Totals	5	2	7	5	2	7	--	2	2	2	--	2	12	6	18	--	--	2[1]	1	3	8[1]	--	2	2	1	5	12[1]	1	1	2

[1] Includes some fish, sex unknown.

TABLE 9

LENGTH COMPOSITION OF THE 1932, 1931 AND 1930 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1941

Area	1932 Year-class, age 9												1931 Year-class, age 10			1930 Year-class, age 11											
	British Columbia									Washington			Washington			British Columbia						Washington			Oregon		
	XIII			XII			XI			Total			VIII			VIII			XII			XI			Total			VIII			VII		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
240																1	--	1															
242																																	
244	1	--	1							1	--	1	1	--	1																		
246	1	--	1	1	--	1				2	--	2																					
248							--	1	1	--	1	1																					
250	1	--	1							1	--	1																					
252																																	
254																															--	--	1
256																																	
258																1	--	1															
260	--	1	1							--	1	1				--	1	1													--	1	1
262													1	--	1	--	1	1															
264																																	
266	1	--	1				--	1	1	1	1	2																			1	--	1
268																			--	1	1				--	1	1						
270																						--	1	1	--	1	1						
Totals	4	1	5	1	--	1	--	2	2	5	3	8	2	--	2	2	2	4	--	1	1	--	1	1	--	2	2	--	--	1	1	1	2

TABLE 10

LENGTH COMPOSITION OF THE 1941 AND 1940 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1942

Area	1941 Year-class, age 1	1940 Year-class, age 2																		
	British Columbia	British Columbia																Washington		
	XI	XIII			XII			XI			X			Total			IX		
Length mm.	M F T	M F T			M F T			M F T			M F T			M F T			M F T		
186					-- 1 1									-- 1 1					
188											1 -- 1			1 -- 1			1 -- 1		
190					2 -- 2									2 -- 2			-- 1 1		
192					-- 2 2						1 -- 1			1 2 3					
194																			
196					2 3 5						1 -- 1			3 3 6			1 1 2		
198		1 -- 1			4 4 8			1 -- 1						6 4 10			1 -- 1		
200		-- 1 1			2 6 8			1 -- 1			1 -- 1			4 7 11			-- -- 1		
202					4 3 7						1 -- 1			5 3 8					
204	1 -- 1				1 3 4									1 3 4					
206					4 5 9			-- 2 2			-- 1 1			4 8 12					
208	1 -- 1	-- 1 1			2 4 6									2 5 7					
210					2 1 3			1 1 2						3 2 5					
212					4 1 5									4 1 5			-- 1 1		
214					-- 2 2			1 -- 1						1 2 3					
216	-- 1 1				-- 1 1									-- 1 1					
218	2 -- 2				-- 1 1			-- 1 1						-- 2 2					
220	-- 1 1																		
222								-- 1 1						-- 1 1					
224																			
226								1 1 2						1 1 2					
Totals	4 2 6	1 2 3			27 37 64			5 6 11			5 1 6			38 46 84			3 3 7[1]		

[1] Includes one fish, sex unknown.

TABLE 11

LENGTH COMPOSITION OF THE 1939 YEAR-CLASS, AGE 3, BY AREAS IN THE PACIFIC NORTHWEST IN 1942

Area	British Columbia															Washington								
	XIII			XII			XI			X			Total			X			IX			Total		
L'th mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
178	--	2	2										--	2	2									
180																								
182	--	1	1																					
184	--	2	2										--	1	1									
186	1	--	1	1	-	1							-	2	2									
188	2	--	2										2	-	2									
190	1	6	7										2	--	2									
192	--	3	3										1	6	7									
194	2	2	4	1	2	3							--	3	3									
196	--	2	2	2	--	2	--	1	1	-	-	-	3	4	7									
198	2	4	6	2	2	4	-	--	--				2	3	5	-	1	1				--	1	1
200	4	1	5	3	1	4	1	--	1				4	6	10									
202	2	1	3	2	--	2							8	2	10									
204	3	4	7	2	--	2	1		1	2	--	2	6	1	7	1	--	1				1	--	1
206	2	--	2	1	5	6	1	5	6	--	1	1	6	5	11									
208	-	2	2	5	2	7	2	--	2				4	10	14	1	2	3	1	--	1	2	2	4
210	2	4	6	5	3	8	2	-	2	--	1	1	7	5	12	1	1	2				1	1	2
212	1	2	3	4	11	15	4	2	6	1	-	1	9	7	16	1	2	3				1	2	3
214	--	3	3	7	2	9	2	2	4	1	-	1	10	15	25	--	3	3				--	3	3
216				4	7	11	--	1	1	1	3	4	10	7	17	4	3	7				4	3	7
218	--	2	2	9	5	14	4	6	10	1	-	1	5	11	16	4	5	9				4	5	9
220	2	--	2	7	10	17	3	3	6				14	13	27	4	5	9	1	--	1	5	5	10
222	1	1	2	5	9	14	3	1	4				12	13	25	3	5	8	1	1	2	4	6	10
224	1	1	2	6	4	10	2	1	3	1	-	1	9	11	20	3	5	8				3	5	8
226	1	--	1	5	1	6	-	4	4				10	6	16	3	5	8				3	5	8
228				4	3	7							6	5	11	1	5	6				1	5	6
230				3	3	6	-	1	1				4	3	7	1	2	3				1	2	3
232	--	1	1	4	--	4	1	--	1				3	4	7									
234				3	3	6							5	1	6									
236				3	1	4	--	1	1				3	3	6				--	1	1	--	1	1
238	--			--	4	4							3	2	5									
240				2	--	2							--	4	4									
242							2	1	3				2	-	2	--			--	1	1	-	1	1
244				1	1	2	1	-	1				2	1	3									
246													2	1	3									
248																								
250																								
252																								
254																								
256																								
258				1	--	1					1	1	1	1	2									
Totals	27	44	71	92	79	171	29	29	58	7	6	13	155	158	313	27	44	71	3	3	6	30	47	77

TABLE 12

LENGTH COMPOSITION OF THE 1938 YEAR-CLASS, AGE 4, BY AREAS IN THE PACIFIC NORTHWEST IN 1942

Area	British Columbia															Washington								
	XIII			XII			XI			X			Total			X			IX			Total		
L'th mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
200					1	1								1	1									
202																								
204																								
206																								
208																								
210					1	1				1	1	2	1	2	3									
212					1	1	2		2				2	1	3									
214				1		1	1	1	2	2		2	4	1	5									
216							2	1	3				2	1	3									
218					1	1								1	1									
220										1		1	1		1									
222				3		3	2	1	3		1	1	5	2	7									
224				2	1	3	4		4		1	1	6	2	8		1	1					1	1
226					4	4	2	1	3		1	1	2	6	8									
228					4	4	1	2	3				1	6	7									
230				2	1	3	3	1	4				5	2	7									
232				1	1	2	2	2	4		1	1	3	4	7									
234	2		2	3	1	4	4		4				9	1	10									
236				1	2	3		4	4		2	2	1	8	9				2		2	2		2
238				1	2	3							1	2	3									
240				2		2	2	1	3		1	1	4	2	6									
242				2	1	3	1		1		1	1	3	2	5									
244					2	2								2	2									
246					1	1	1		1				1	1	2				1	1	2	1	1	2
248					1	1								1	1									
250																				1	1		1	1
252					1	1								1	1					1	1		1	1
254					1	1								1	1									
256					1	1		1	1					2	2									
258							1		1				1		1									
Totals	2		2	18	28	46	28	15	43	4	9	13	52	52	104		1	1	3	3	6	3	4	7

TABLE 13

LENGTH COMPOSITION OF THE 1937 YEAR-CLASS, AGE 5, BY AREAS IN THE PACIFIC NORTHWEST IN 1942

Area	British Columbia															Washington		
	XIII			XII			XI			X			Total			IX		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
196				--	1	1							--	1	1			
198																		
200																		
202																		
204																		
206																		
208																		
210										--	1	1	--	1	1			
212							1	--	1				1	--	1			
214																		
216																		
218							1	--	1				1	--	1			
220																		
222							1	--	1				1	--	1			
224							1	--	1				1	--	1			
226				1	--	1							1	--	1			
228	--	1	1							1	1	2	1	2	3			
230				1	1	2	2	1	3				3	2	5			
232							2	--	2	--	1	1	2	1	3			
234				1	--	1	1	1	2	1	3	4	3	4	7	--	1	1
236				6	1	7							6	1	7			
238	--	1	1	3	3	6	--	1	1				3	5	8			
240				2	5	7	1	2	3				3	7	10			
242				3	2	5	1	3	4				4	5	9	--	1	1
244				1	1	2	2	3	5				3	4	7			
246				1	6	7				--	1	1	1	7	8			
248				3	3	6	--	1	1				3	4	7			
250							1	--	1	--	1	1	1	1	2	1	--	1
252				--	2	2	--	2	2	--	1	1	--	5	5			
254	--	1	1										--	1	1			
256				--	1	1							--	1	1			
258																		
260				1	1	2							1	1	2			
Totals	--	3	3	23	27	50	14	14	28	2	9	11	39	53	92	1	2	3

TABLE 14

LENGTH COMPOSITION OF THE 1936 AND 1935 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1942

Area	1936 Year-class, age 6																1935 Year-class, age 7								
	British Columbia													Washington			British Columbia								
	XIII			XII			XI			X			Total				IX			XII			XI			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
224																			1	--	1				1	--	1
226				1	--	1				--	1	1	1	1	2	1	--	1									
228										--	1	1	--	1	1												
230																						--	1	1	--	1	1
232				1	1	2				1	--	1	2	1	3												
234				1	--	1	2	--	2				3	--	3				1	--	1				1	--	1
236				1	1	2	--	1	1				1	2	3												
238				2	1	3				1	--	1	3	1	4				--	1	1				--	1	1
240				2	1	3	1	2	3				3	3	6												
242				3	1	4							3	1	4												
244				--	1	1				--	1	1	--	2	2				1	1	2				1	1	2
246				1	3	4							1	3	4				1	1	2				1	1	2
248				3	1	4	--	1	1				3	2	5				--	1	1				--	1	1
250																			--	1	1	--	1	1	--	2	2
252	--	1	1	3	1	4							3	2	5												
254				1	2	3							1	2	3	--	1	1	1	--	1				1	--	1
256				--	1	1							--	1	1												
258							--	1	1				--	1	1												
260				--	1	1							--	1	1												
262				--	1	1							--	1	1												
264				--	1	1							--	1	1												
266																											
268																											
270				--	1	1							--	1	1												
Totals	--	1	1	19	18	37	3	5	8	2	3	5	24	27	51	1	1	2	5	5	10	--	2	2	5	7	12

TABLE 15

LENGTH COMPOSITION OF THE 1934, 1933, AND 1931 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1942

British Columbia

Area	1934 Year-class, age 8									1933 Year-class, age 9			1931 Year-class, age 11		
	XII			XI			Total			XI			XII		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
246				1	--	1	1	--	1						
248															
250	--	1	1				--	1	1	--	1	1			
252	--	1	1				--	1	1						
254															
256															
258	--	1	1	1	--	1	1	1	2						
260													--	1	1
262															
264													--	1	1
266	--	1	1				--	1	1						
Totals	--	4	4	2	--	2	2	4	6	--	1	1	--	2	2

TABLE 16

LENGTH COMPOSITION OF THE 1942 YEAR-CLASS, AGE 1, BY AREAS IN THE PACIFIC NORTHWEST IN 1943

Area	British Columbia									Washington		
	XIII			XI			Total			IX		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T
116			1				--	--	1			
118												
120												
122												
124												
126												
128												
130												
132												
134												
136												
138												
140												
142												
144												
146												
148										--	--	1
150				1	1	2	1	1	2			
Totals	--	--	1[1]	1	1	2	1	1	3[1]	--	--	1[1]

[1] Includes one fish, sex unknown.

TABLE 17

LENGTH COMPOSITION OF THE 1940 YEAR-CLASS, AGE 3, BY AREAS IN THE PACIFIC NORTHWEST IN 1943

Area	British Columbia												Washington								
	XIII			XII			XI			Total			IX			VIII			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
196							1	--	1	1	--	1									
198																					
200																					
202				1	--	1	1	--	1	2	--	2									
204																					
206	--	1	1	--	2	2					3	3									
208				1	--	1				1	--	1									
210				1	-	1	1	--	1	2	--	2				1	--	1	1	--	1
212	1	--	1	2	--	2	1	--	1	4	--	4									
214				1	-	1				1	--	1	--	1	1				--	1	1
216	1	1	2	1	1	2	1	--	1	3	2	5	--	2	2	2	--	2	2	2	4
218	1	1	2	3	--	3	1	--	1	5	1	6				1	--	1	1	--	1
220				2	--	2				2	--	2	3	--	3				3	--	3
222	1	1	2	3	-	3	4	--	4	8	1	9	1	--	1				1	--	1
224	1	--	1	1	1	2	1	1	2	3	2	5									
226	1	--	1	1	3	4	--	1	1	2	4	6	--	1	1				--	1	1
228				5	--	5	2	1	3	7	1	8									
230	1	--	1	1	--	1	2	1	3	4	1	5									
232				4	--	4	3	2	5	7	2	9									
234				--	2	2				--	2	2									
236				3	2	5				3	2	5									
238	-	1	1	1	2	3	1	--	1	2	3	5									
240				1	--	1	--	1	1	1	1	2									
242							--	1	1	--	1	1									
244																					
246	--			-	1	1	--	1	1	--	2	2									
248				--	2	2				--	2	2									
250																					
252																					
254																					
256				--	1	1				--	1	1									
Totals	7	5	12	32	17	49	19	9	28	58	31	89	4	4	8	4	--	4	8	4	12

TABLE 18

LENGTH COMPOSITION OF THE 1939 YEAR-CLASS, AGE 4, BY AREAS IN THE PACIFIC NORTHWEST IN 1943

Area	British Columbia												Washington											
	XIII			XII			XI			Total			X			IX			VIII			Total		
L'th mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
208				1	--	1				1	--	1												
210													1	--	1							1	--	1
212							1	--	1	1	--	1				--	1	1				--	1	1
214							1	--	1	1	--	1				1	--	1				1	--	1
216	2	1	3	1	1	2	1	--	1	4	2	6				1	--	1				1	--	1
218				1	1	2	3	--	3	4	1	5				1	--	1				1	--	1
220				2	1	3	--	1	1	2	2	4				--	1	1				--	1	1
222	3	1	4	3	3	6	4	2	6	10	6	16				--	1	1				--	1	1
224	4	2	6	8	1	9	4	1	5	16	4	20	--	1	1	1	--	1				1	1	2
226	1	2	3	5	2	7	3	3	6	9	7	16	--	1	1	--	3	3	1	--	1	1	4	5
228	1	4	5	2	1	3	7	1	8	10	6	16				4	3	7	1	--	1	5	3	8
230	3	2	5	7	1	8	9	1	10	19	4	23				--	1	1				--	1	1
232	1	3	4	7	6	13	5	4	9	13	13	26				2	--	2				2	--	2
234	--	1	1	14	6	20	5	1	6	19	8	27				2	1	3	--	1	1	2	2	4
236	2	2	4	7	5	12	2	1	3	11	8	19	--	1	1	1	--	1				1	1	2
238	--	2	2	8	4	12	5	3	8	13	9	22												
240				2	6	8	1	3	4	3	9	12				--	1	1				--	1	1
242	1	2	3	1	7	8	4	3	7	6	12	18	1	--	1							1	--	1
244				8	7	15	1	4	5	9	11	20												
246				3	8	11	--	3	3	3	11	14				--	1	1				--	1	1
248				1	6	7	--	2	2	1	8	9												
250				1	1	2	--	1	1	1	2	3												
252				--	1	1	--	1	1	--	2	2	--	1	1							--	1	1
254				1	1	2				1	1	2												
256				--	2	2	--	1	1	--	3	3												
258							--	1	1	--	1	1												
Totals	18	22	40	83	71	154	56	37	93	157	130	287	2	4	6	13	13	26	2	1	3	17	18	35

TABLE 19

LENGTH COMPOSITION OF THE 1938 YEAR-CLASS, AGE 5, BY AREAS IN THE PACIFIC NORTHWEST IN 1943

Area	British Columbia												Washington											
	XIII			XII			XI			Total			X			IX			VIII			Total		
L'th mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
214				1	--	1				1	--	1												
216																								
218				2	--	2	1	--	1	3	--	3												
220	2	--	2							2	--	2												
222	2	--	2	2	--	2	1	--	1	5	--	5				1	--	1				1	--	1
224	4	--	4				1	--	1	5	--	5				1	--	1				1	--	1
226	2	--	2	2	-	2	1	1	2	5	1	6												
228	2	--	2	2	--	2	2	1	3	6	1	7				--	1	1				--	1	1
230	1	1	2	4	--	4	1	--	1	6	1	7	--	1	1	1	--	1	1	--	1	2	1	3
232	1	--	1	3	-	3	1	--	1	5	--	5				--	1	1				--	1	1
234	1	--	1	3	3	6	1	--	1	5	3	8	1	--	1							1	--	1
236				6	4	10	5	3	8	11	7	18	--	1	1	--	1	1				--	2	2
238	1	--	1	4	2	6	2	--	2	7	2	9				--	1	1				--	1	1
240	1	--	1	2	3	5	3	2	5	6	5	11				1	1	2	--	1	1	1	2	3
242				3	1	4	1	2	3	4	3	7												
244	1	--	1	2	6	8	2	1	3	5	7	12												
246				2	4	6	2	2	4	4	6	10												
248				1	1	2	--	1	1	1	2	3				--	1	1				--	1	1
250				2	2	4	1	2	3	3	4	7												
252				--	3	3				--	3	3				--	1	1				--	1	1
254				3	4	7	2	1	3	5	5	10												
256				--	2	2	--	1	1	--	3	3												
258				--	2	2				--	2	2												
260				--	2	2				--	2	2												
262																								
264				--	1	1	1	-	1	1	1	2												
Totals	18	1	19	44	40	84	28	17	45	90	58	148	1	2	3	4	7	11	1	1	2	6	10	16

TABLE 20

LENGTH COMPOSITION OF THE 1937 YEAR-CLASS, AGE 6, BY AREAS IN THE PACIFIC NORTHWEST IN 1943

Area	British Columbia												Washington											
	XIII			XII			XI			Total			X			IX			VIII			Total		
L'th mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
214																1	--	1				1	--	1
216																								
218																								
220							1	--	1	1	--	1												
222																								
224	--	1	1				1	--	1	1	1	2				--	1	1				--	1	1
226	--	1	1	1	--	1	1	--	1	2	1	3												
228				1	--	1	1	--	1	2	--	2												
230				1	--	1	2	--	2	3	--	3							1	--	1	1	--	1
232	--	1	1	3	1	4				3	2	5												
234				1	--	1	1	1	2	2	1	3												
236	1	--	1	--	2	2	1	1	2	2	3	5												
238				4	--	4	1	2	3	5	2	7												
240	2	1	3	2	--	2	--	1	1	4	2	6												
242				3	2	5				3	2	5												
244	--	1	1	3	2	5	--	2	2	3	5	8												
246				5	2	7	--	1	1	5	3	8												
248				2	4	6				2	4	6												
250				--	2	2				--	2	2	--	1	1							--	1	1
252				1	2	3	2	--	2	3	2	5												
254				2	--	2	--	1	1	2	1	3												
256				1	3	4	1	1	2	2	4	6												
258																								
260				2	1	3	--	2	2	2	3	5												
262				--	3	3	--	2	2	--	5	5												
264				--	1	1	1	1	2	1	2	3												
266				--	2	2				--	2	2												
268				1	1	2	--	1	1	1	2	3												
270				--	1	1				--	1	1												
272							--	1	1	--	1	1												
Totals	3	5	8	33	29	62	13	17	30	49	51	100	--	1	1	1	1	2	1	--	1	2	2	4

TABLE 21

LENGTH COMPOSITION OF THE 1936 YEAR-CLASS, AGE 7, BY AREAS IN THE PACIFIC NORTHWEST IN 1943

Area	1936 Year-class, age 7															1935 Year-class, age 8									
	British Columbia												Washington			British Columbia									
	XIII			XII			XI			Total			IX			XIII			XII			XI			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
224																						1	--	1	1	--	1
226																											
228																											
230							1	--	1	1	--	1															
232							1	--	1	1	--	1															
234	1	--	1							1	--	1	1	--	1												
236				2	--	2	1	--	1	3	--	3										1	--	1	1	--	1
238				2	1	3				2	1	3										1	--	1	1	--	1
240				1	--	1				1	--	1															
242				2	--	2	1	--	1	3	--	3					1	1							--	1	1
244	--	1	1	1	--	1				1	1	2															
246	1	1	2				--	2	2	1	3	4															
248				1	--	1				1	--	1															
250							1	1	2	1	1	2										1	--	1	1	--	1
252							1	--	1	1	--	1															
254				3	1	4				3	1	4								1	1	2	--	2	2	1	3
256																											
258				1	--	1				1	--	1															
260				--	1	1	--	1	1	--	2	2															
262				--	2	2	1	--	1	1	2	3															
264				--	2	2	--	1	1	--	3	3								1	--	1				1	--	1
266				1	--	1				1	--	1															
268																				1	--	1				1	--	1
270				--	1	1				--	1	1															
272																				--	1	1				--	1	1
274																											
276				--	1	1				--	1	1															
278																				--	1	1				--	1	1
Totals	2	2	4	14	9	23	7	5	12	23	16	39	1	--	1	--	1	1	2	3	5	6	--	6	8	4	12

TABLE 22

LENGTH COMPOSITION OF THE 1934, 1933 AND 1932 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1943

British Columbia

Area	1934 Year-class, age 9									1933 Year-class, age 10			1932 Year-class, age 11		
	XII			XI			Total			XIII			XI		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
232															
234	1	--	1				1	--	1						
236															
238															
240															
242															
244															
246															
248															
250	1	--	1				1	--	1						
252															
254															
256				--	1	1	--	1	1						
258															
260										1	--	1			
262															
264															
266															
268															
270				1	--	1	1	--	1				1	--	1
Totals	2	--	2	1	1	2	3	1	4	1	--	1	1	--	1

TABLE 23

LENGTH COMPOSITION OF THE 1943 AND 1942 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1944

(Samples From British Columbia Only)

Area	1943 Year-class, age 1									1942 Year-class, age 2								
	XII			XI			Total			XII			XI			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
152				--	1	1	--	1	1									
154																		
156																		
158																		
160																		
162																		
164																		
166													1	--	1	1	--	1
168				--	1	1	--	1	1									
170	--	1	1	--	3	3	--	4	4				--	1	1	--	1	1
172				--	1	1	--	1	1				2	1	3	2	1	3
174																		
176																		
178													--	2	2	--	2	2
180													--	1	1	--	1	1
182													1	1	2	1	1	2
184				1	--	1	1	--	1									
186													1	--	1	1	--	1
188				1	--	1	1	--	1				--	1	1	--	1	1
190				1	--	1	1	--	1									
192				--	1	1	--	1	1									
194													2	1	3	2	1	3
196													--	3	3	--	3	3
198													2	1	3	2	1	3
200				1	--	1	1	--	1				1	--	1	1	--	1
202													2	1	3	2	1	3
204													1	1	2	1	1	2
206				1	--	1	1	--	1	1	--	1	--	2	2	1	2	3
208																		
210													2	--	2	2	--	2
212													--	2	2	--	2	2
214													--	1	1	--	1	1
216										1	--	1				1	--	1
218																		
220													1	--	1	1	--	1
222																		
224																		
226																		
228																		
230																		
232				--	1	1	--	1	1									
Totals	-	1	1	5	8	13	5	9	14	2	--	2	16	19	35	18	19	37

TABLE 24

LENGTH COMPOSITION OF THE 1941 AND 1940 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1944

(Samples From British Columbia Only)

Area	1941 Year-class, age 3									1940 Year-class, age 4									
	XII			XI			Total			XII			XI			X			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
202				--	1	1	--	1	1												
204																					
206																					
208																					
210																					
212																					
214				--	1	1	--	1	1												
216																					
218																					
220													1	--	1				1	--	1
222													2	--	2				2	--	2
224				1	--	1	1	--	1				1	--	1				1	--	1
226				2	--	2	2	--	2				--	1	1				--	1	1
228				1	1	2	1	1	2				3	2	5				3	2	5
230				1	--	1	1	--	1				1	3	4				1	3	4
232	1	--	1	2	--	2	3	--	3	1	--	1	5	5	10				6	5	11
234				1	1	2	1	1	2	1	--	1	5	3	8	1	1	2	7	4	11
236				1	1	2	1	1	2				6	7	13				6	7	13
238				1	1	2	1	1	2	1	1	2	2	5	7				3	6	9
240										1	--	1	7	4	11				8	4	12
242				--	2	2	--	2	2				3	5	8				3	5	8
244										--	2	2	3	6	9	.	1	1	3	9	12
246													4	3	7				4	3	7
248													2	4	6				2	4	6
250				--	1	1	--	1	1				1	5	6				1	5	6
252													1	2	3				1	2	3
254													--	1	1				--	1	1
256													1	1	2				1	1	2
258																					
260																					
262																					
264																					
266													--	2	2				--	2	2
268																					
270																					
Totals	1	--	1	10	9	19	11	9	20	4	3	7	48	59	107	1	2	3	53	64	117

TABLE 25

LENGTH COMPOSITION OF THE 1939 AND 1938 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1944

(Samples From British Columbia Only)

Area	1939 Year-class, age 5												1938 Year-class, age 6											
	XII			XI			X			Total			XII			XI			X			Total		
L'th mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
224				1	--	1				1	--	1												
226				1	1	2				1	1	2				--	1	1				--	1	1
228				3	--	3				3	--	3				1	--	1				1	--	1
230	1	1	2	4	--	4				5	1	6				2	1	3				2	1	3
232	1	--	1	10	4	14	1	1	2	12	5	17				3	1	4	--	1	1	3	2	5
234	1	--	1	7	3	10				8	3	11				3	--	3				3	--	3
236	1	2	3	13	6	19	1	--	1	15	8	23	--	1	1	3	1	4	1	--	1	4	2	6
238	1	--	1	6	4	10	1	--	1	8	4	12	1	--	1	4	1	5				5	1	6
240	--	2	2	9	9	18	2	--	2	11	11	22	1	--	1	2	2	4				3	2	5
242	1	--	1	6	13	19				7	13	20	--	1	1	5	3	8	1	--	1	6	4	10
244				5	11	16				5	11	16				3	4	7				3	4	7
246	2	--	2	8	7	15				10	7	17	1	2	3	3	1	4	1	--	1	5	3	8
248	--	1	1	5	7	12				5	8	13				6	3	9				6	3	9
250				2	7	9	1	2	3	3	9	12	1	--	1	1	2	3				2	2	4
252				2	7	9				2	7	9				1	6	7				1	6	7
254				3	3	6				3	3	6				--	2	2				--	2	2
256				2	5	7				2	5	7	--	1	1	1	1	2				1	2	3
258				1	2	3				1	2	3				2	4	6				2	4	6
260																--	1	1				--	1	1
262	--	1	1	--	2	2				--	3	3				1	1	2				1	1	2
264	--	1	1							--	1	1				1	1	2				1	1	2
266																			--	1	1	--	1	1
268																								
270																								
272																								
274																								
276																								
278																								
280																			--	1	1	--	1	1
Totals	8	8	16	88	91	179	6	3	9	102	102	204	4	5	9	42	36	78	3	3	6	49	44	93

TABLE 26

LENGTH COMPOSITION OF THE 1937 AND 1936 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1944

(Samples From British Columbia Only)

Area	1937 Year-class, age 7												1936 Year-class, age 8								
	XII			XI			X			Total			XII			XI			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
228	1	--	1							1	--	1									
230	--	1	1							--	1	1									
232				--	1	1				--	1	1				2	--	2	2	--	2
234				1	--	1				1	--	1									
236				1	--	1				1	--	1									
238				1	1	2				1	1	2				1	--	1	1	--	1
240																					
242				2	1	3				2	1	3				1	--	1	1	--	1
244	1	--	1	1	1	2				2	1	3				1	--	1	1	--	1
246				--	1	1				--	1	1									
248							--	1	1	--	1	1									
250				1	--	1				1	--	1									
252				1	3	4				1	3	4				--	1	1	--	1	1
254				--	2	2				--	2	2				1	--	1	1	--	1
256				1	1	2				1	1	2				1	--	1	1	--	1
258																--	2	2	--	2	2
260				--	1	1				--	1	1									
262																					
264																					
266				--	1	1				--	1	1									
268				--	1	1				--	1	1									
270													--	1	1	--	1	1	--	2	2
Totals	2	1	3	9	14	23	--	1	1	11	16	27	--	1	1	7	4	11	7	5	12

TABLE 27

LENGTH COMPOSITION OF THE 1935 AND 1933 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1944

(Samples From British Columbia Only)

Area	1935 Year-class, age 9									1933 Year-class, age 11		
	XI			X			Total			XI		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T
232										1	--	1
234												
236												
238												
240												
242												
244												
246												
248		1	1					1	1			
250												
252												
254												
256												
258				1	--	1	1	--	1			
260	1	--	1				1	--	1			
262												
264												
266												
268												
270												
Totals	1	1	2	1	--	1	2	1	3	1	--	1

TABLE 28

LENGTH COMPOSITION OF THE 1944 AND 1943 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1945

British Columbia

Area	1944 Year-class, age 1			1943 Year-class, age 2											
	XI			XII			XI			VIII			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
176	--	1	1												
178															
180															
182															
184							--	1	1				--	1	1
186															
188							--	1	1				--	1	1
190															
192															
194	2	--	2	1	--	1							1	--	1
196															
198							1	--	1				1	--	1
200															
202															
204							2	--	2				2	--	2
206															
208							3	--	3				3	--	3
210							3	--	3				3	--	3
212							3	1	4				3	1	4
214							--	1	1	--	1	1	--	2	2
216							3	2	5				3	2	5
218							1	1	2				1	1	2
220															
222							--	3	3				--	3	3
224															
226							--	1	1				--	1	1
228															
230															
232															
234															
236															
238	1	--	1												
240															
Totals	3	1	4	1	--	1	16	11	27	--	1	1	17	12	29

TABLE 29

LENGTH COMPOSITION OF THE 1942 YEAR-CLASS, AGE 3, BY AREAS IN THE PACIFIC NORTHWEST IN 1945

Area	British Columbia													Washington								
	XII			XI			X			VIII			Total			IX			VIII			Total		
L'th mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
206				--	1	1				1	--	1	1	1	2									
208																								
210																								
212				1	--	1							1	--	1									
214																								
216				2	2	4	--	1	1				2	3	5									
218				--	1	1							--	1	1									
220				2	--	2							2	--	2									
222				5	--	5							5	--	5									
224				1	4	5							1	4	5									
226	--	1	1	--	3	3				1	--	1	1	4	5				--	1	1	--	1	1
228				--	3	3							--	3	3									
230																								
232				1	1	2							1	1	2				1	--	1	1	--	1
234				1	--	1				1	--	1	2	--	2				--	1	1	--	1	1
236				--	1	1							--	1	1	1		1				1	--	1
238				--	1	1							--	1	1									
240																								
242																								
244							1	--	1				1	--	1									
246				--	1	1							--	1	1									
248																								
250																								
252																								
254				--	1	1							--	1	1									
256																	1	1					1	1
258																								
260																								
262																								
264																								
266																			--	1	1	--	1	1
Totals	--	1	1	13	19	32	1	1	2	3	--	3	17	21	38	1	1	2	1	3	4	2	4	6

TABLE 30

LENGTH COMPOSITION OF THE 1941 YEAR-CLASS, AGE 4, BY AREAS IN THE PACIFIC NORTHWEST IN 1945

Area	British Columbia									Washington								
	XI			X			Total			IX			VII			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
234	1	--	1	--	1	1	1	1	2									
236																		
238	--	1	1				--	1	1				1	--	1	1	--	1
240																		
242																		
244																		
246																		
248	--	1	1				--	1	1									
250													--	1	1	--	1	1
252																		
254																		
256	--	1	1				--	1	1	--	1	1				--	1	1
Totals	1	3	4	--	1	1	1	4	5	--	1	1	1	1	2	1	2	3

TABLE 31

LENGTH COMPOSITION OF THE 1940 YEAR-CLASS, AGE 5, BY AREAS IN THE PACIFIC NORTHWEST IN 1945

Area	British Columbia															Washington											
	XII			XI			X			VIII			Total			IX			VIII			VII			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
226				1	--	1							1	--	1												
228				1	--	1							1	--	1												
230				1	--	1							1	--	1												
232				1	--	1							1	--	1												
234				2	2	4							2	2	4				1	--	1				1	--	1
236				3	--	3							3	--	3												
238	1	--	1	2	--	2							3	--	3												
240	--	1	1	2	3	5							2	4	6												
242				4	2	6							4	2	6												
244				3	1	4							3	1	4				1	--	1				1	--	1
246				7	6	13							7	6	13				1	--	1				1	--	1
248				2	1	3							2	1	3												
250				2	2	4				--	2	2	2	4	6	2	--	2	--	1	1				2	1	3
252				1	4	5							1	4	5												
254				2	--	2	2	--	2				4	--	4	2	--	2	1	--	1				3	--	3
256				1	2	3							1	2	3	--	3	3				--	1	1	--	4	4
258				--	2	2							--	2	2	1	--	1	1	--	1				2	--	2
260				--	1	1							--	1	1	1	--	1							1	--	1
262																											
264																											
266																											
268																											
270																1	--	1							1	--	1
272																--	1	1							--	1	1
274																--	1	1							--	1	1
Totals	1	1	2	35	26	61	2	--	2	--	2	2	38	29	67	7	5	12	5	1	6	--	1	1	12	7	19

TABLE 32

LENGTH COMPOSITION OF THE 1939 YEAR-CLASS, AGE 6, BY AREAS IN THE PACIFIC NORTHWEST IN 1945

Area	British Columbia															Washington											
	XII			XI			X			VIII			Total			IX			VIII			VII			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
234	--	1	1	3	--	3							3	1	4												
236	1	--	1	5	2	7							6	2	8							1	--	1	1	--	1
238				2	3	5							2	3	5												
240				7	--	7							7	--	7							1	--	1	1	--	1
242				5	5	10							5	5	10												
244				4	3	7							4	3	7												
246	--	1	1	1	3	4	1	--	1				2	4	6				1	--	1				1	--	1
248				3	4	7				--	1	1	3	5	8				1	--	1	--	1	1	1	1	2
250				4	2	6				--	1	1	4	3	7				2	1	3				2	1	3
252				2	3	5	--	1	1				2	4	6	1	--	1							1	--	1
254				5	6	11				1	--	1	6	6	12	1	--	1	1	2	3				2	2	4
256				2	4	6							2	4	6	1	1	2	1	--	1	--	1	1	2	2	4
258				2	2	4							2	2	4	--	1	1	--	1	1				--	2	2
260																2	--	2							2	--	2
262				2	1	3							2	1	3	2	--	2	1	--	1				3	--	3
264				1	--	1							1	--	1												
266				--	1	1							--	1	1	1	--	1	1	--	1				2	--	2
268																			--	1	1				--	1	1
Totals	1	2	3	48	39	87	1	1	2	1	2	3	51	44	95	8	2	10	8	5	13	2	2	4	18	9	27

TABLE 33

LENGTH COMPOSITION OF THE 1938 YEAR-CLASS, AGE 7, BY AREAS IN THE PACIFIC NORTHWEST IN 1945

Area	British Columbia															Washington									
	XII			XI			X			VIII			Total			IX			VIII			VII			Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
234	--	--	--	1	1	2	--	--	--	--	--	--	1	1	2	--	--	--	--	--	--	--	--	--	--	--	--
236	--	--	--	2	--	2	--	--	--	--	--	--	2	--	2	--	--	--	--	--	--	--	--	--	--	--	--
238	--	--	--	1	--	1	--	--	--	--	1	1	1	1	2	--	--	--	--	--	--	--	--	--	--	--	--
240	1	--	1	1	--	1	--	--	--	--	--	--	2	--	2	--	--	--	--	--	--	1	--	1	1	--	1
242	--	--	--	1	2	3	--	--	--	--	--	--	1	2	3	--	--	--	--	--	--	--	--	--	--	--	--
244	--	--	--	1	--	1	--	--	--	--	--	--	1	--	1	--	--	--	--	--	--	--	1	1	--	1	1
246	2	--	2	3	1	4	--	--	--	--	--	--	5	1	6	--	--	--	--	--	--	--	--	--	--	--	--
248	--	--	--	--	2	2	1	--	1	--	--	--	1	2	3	1	--	1	--	--	--	--	--	--	1	--	1
250	--	--	--	1	3	4	--	--	--	--	--	--	1	3	4	--	--	--	--	1	1	--	--	--	--	1	1
252	--	--	--	1	--	1	--	--	--	--	--	--	1	--	1	--	--	--	--	--	--	--	--	--	--	--	--
254	--	--	--	4	--	4	--	--	--	--	--	--	4	--	4	--	--	--	--	--	--	--	--	--	--	--	--
256	--	--	--	2	--	2	1	--	1	--	--	--	3	--	3	--	--	--	2	1	3	--	--	--	2	1	3
258	--	--	--	2	6	8	--	--	--	--	--	--	2	6	8	--	--	--	--	--	--	--	--	--	--	--	--
260	--	--	--	--	1	1	--	--	--	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--
262	--	--	--	--	1	1	--	--	--	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--
264	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
266	--	--	--	--	1	1	--	1	1	--	--	--	--	2	2	--	--	--	--	1	1	--	--	--	--	1	1
Totals	3	--	3	20	18	38	2	1	3	--	1	1	25	20	45	1	--	1	2	3	5	1	1	2	4	4	8

TABLE 34

LENGTH COMPOSITION OF THE 1937 AND 1936 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1945

Area	1937 Year-class, age 8									1936 Year-class, age 9		
	British Columbia			Washington						British Columbia		
	XI			IX			VIII			Total			XI		
Length, mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
232														1	1
234															
236															
238															
240															
242															
244	1		1												
246		1	1												
248															
250	3	1	4					1	1		1	1	1		1
252	1		1				1		1	1		1			
254															
256		1	1												
258	1		1												
260															
262	1		1		1	1					1	1			
264															
266		1	1												
268															
270		1	1												
272															
274															
276													1		1
Totals	7	5	12		1	1	1	1	2	1	2	3	2	1	3

TABLE 35

LENGTH COMPOSITION OF THE 1943 AND 1942 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1946

Area	1943 Year-class, age 3						1942 Year-class, age 4											
	British Columbia			Washington			British Columbia									Washington		
	XI			VIII			XI			VIII			Total			VIII		
Length, mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
222	1	1	2															
224																		
226																		
228										1		1	1		1			
230				2		2												
232					1	1												
234											1	1		1	1	1		1
236	1	1	2											1	1			
238		1	1	1		1		1	1	1		1	1	1	2	1		1
240								1	1					1	1	2		2
242							1	1	2				1	1	2		3	3
244																	1	1
246											1	1		1	1	1		1
248		1	1					1	1					1	1			
250				1		1										1	1	2
252																		
254																		
256																	1	1
258																		
Totals	2	4	6	3	1	4	1	5	6	2	2	4	3	7	10	5	7	12

TABLE 36

LENGTH COMPOSITION OF THE 1941 AND 1940 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1946

Area	1941 Year-class, age 5												1940 Year-class, age 6											
	British Columbia									Washington			British Columbia									Washington		
	XI			VIII			Total			VIII			XI			VIII			Total			VIII		
L'th mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
230	1	--	1				1	--	1															
232																								
234																								
236																1	--	1	1	--	1			
238										1	--	1				2	--	2	2	--	2			
240				--	1	1	--	1	1	1	--	1				--	2	2	--	2	2			
242																2	1	3	2	1	3	1	--	1
244													1	--	1				1	--	1	4	2	6
246													2	--	2	--	1	1	2	1	3	2	--	2
248	1	--	1				1	--	1				2	--	2				2	--	2	3	--	3
250										1	1	2	--	1	1				--	1	1	2	3	5
252													1	1	2				1	1	2	4	4	8
254	--	1	1				--	1	1	--	1	1				--	1	1	--	1	1	3	4	7
256										1	--	1	1	2	3				1	2	3	2	1	3
258	1	--	1				1	--	1	2	3	5	1	--	1	1	--	1	2	--	2	2	2	4
260										--	1	1										--	8	8
262																--	1	1	--	1	1	1	3	4
264										1	--	1										--	1	1
266																						--	2	2
268																						--	1	1
270													--	1	1				--	1	1	--	1	1
272													--	1	1				--	1	1			
274										1	--	1										--	1	1
Totals	3	1	4	--	1	1	3	2	5	8	6	14	8	6	14	6	6	12	14	12	26	24	33	57

TABLE 37

LENGTH COMPOSITION OF THE 1939, 1938 AND 1937 YEAR-CLASSES BY AREAS IN THE PACIFIC NORTHWEST IN 1946

Area	1939 Year-class, age 7												1938 Year-class, age 8						1937 Year-class, age 9		
	British Columbia									Washington			British Columbia			Washington			Washington		
	XI			VIII			Total			VIII			XI			VIII			VIII		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
238	1	--	1				1	--	1	--	1	1									
240				--	2	2	--	2	2							1	--	1			
242				--	1	1	--	1	1												
244	2	--	2	--	1	1	2	1	3	1	--	1									
246				1	--	1	1	--	1	1	--	1									
248				1	--	1	1	--	1	3	--	3									
250										1	--	1	--	1	1	--	1	1			
252	--	1	1	1	2	3	1	3	4	2	1	3									
254	1	--	1	--	2	2	1	2	3	3	2	5									
256	1	3	4	--	2	2	1	5	6	2	1	3				--	1	1	1	--	1
258	--	1	1				--	1	1	2	--	2									
260	1	2	3				1	2	3	1	--	1				1	--	1	--	1	1
262	--	3	3				--	3	3	--	2	2				--	1	1			
264	--	1	1				--	1	1	1	--	2									
266										1	1	2									
268	1	--	1				1	--	1	--	2	2							1	1	2
270																					
272	--	1	1				--	1	1							--	1	1			
Totals	7	12	19	3	10	13	10	22	32	18	10	29[1]	--	1	1	2	4	6	2	2	4

[1] Includes one fish, sex unknown.

TABLE 38

LENGTH COMPOSITION OF THE 1940 YEAR-CLASS, AGE 1, IN 1941-42

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
130	--	1	1													--	1	1
132																		
134																		
136																		
138																		
140	--	--	1													--	--	1
142																		
144																		
146	1	--	1				--	2	2				--	2	2	1	2	3
148							3	--	3				3	--	3	3	--	3
150																		
152										2	--	2	2	--	2	2	--	2
154							4	--	4	4	--	4	8	--	8	8	--	8
156	1	--	1				2	2	4				2	2	4	3	2	5
158	--	1	2				2	2	4				2	2	4	2	3	6
160	1	1	5				--	9	9				--	9	9	1	10	14
162	--	1	2				8	3	11	6	--	6	14	3	17	14	4	19
164	--	--	1	2	--	2	1	16	17				3	16	19	3	16	20
166	--	2	3				4	11	15	6	3	9	10	14	24	10	16	27
168	1	4	6				9	12	21	12	12	24	21	24	45	22	28	51
170	1	--	1				14	16	30	15	10	25	29	26	55	30	26	56
172	2	--	2				20	21	41	15	6	21	35	27	62	37	27	64
174	--	--	1	2	2	4	11	27	38	20	14	34	33	43	76	33	43	77
176	2	2	4	2	--	2	30	12	42	33	16	49	65	28	93	67	30	97
178	--	2	2	2	2	4	39	20	59	15	13	28	56	35	91	56	37	93
180				2	--	2	24	21	45	26	26	52	52	47	99	52	47	99
182				2	--	2	14	21	35	29	18	47	45	39	84	45	39	84
184							14	16	30	21	14	35	35	30	65	35	30	65
186							6	7	13	13	11	24	19	18	37	19	18	37
188							1	4	5	14	7	21	15	11	26	15	11	26
190	1	--	1	1	--	1	3	5	8	7	6	13	11	11	22	12	11	23
192				--	1	1	1	4	5	3	6	9	4	11	15	4	11	15
194	1	--	1	2	1	3	1	2	3	1	3	4	4	6	10	5	6	11
196							--	1	1	3	1	4	3	2	5	3	2	5
198							1	--	1	2	1	3	3	1	4	3	1	4
200										1	2	3	1	2	3	1	2	3
202										--	1	1	--	1	1	--	1	1
204							1	--	1	--	1	1	1	1	2	1	1	2
Totals	11	14	35[1]	15	6	21	213	234	447	248	171	419	476	411	887	487	425	922[1]

[1] Includes some fish, sex unknown.

TABLE 39

LENGTH COMPOSITION OF THE 1939 YEAR-CLASS, AGE 2, IN 1941-42

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
160	---	---	2	---	---	---	---	1	1	2	---	2	2	1	3	2	1	5
162	---	1	3	2	---	2	---	---	---	---	---	---	2	---	2	2	1	5
164	---	2	2	---	---	---	4	---	4	---	5	5	4	5	9	4	7	11
166	4	---	5	---	---	---	---	2	2	---	2	2	---	4	4	4	4	9
168	2	5	9	---	---	---	3	2	5	---	2	2	3	4	7	5	9	16
170	3	---	6	---	---	---	9	6	15	3	6	9	12	12	24	15	12	30
172	2	3	9	---	2	2	5	10	15	---	4	4	5	16	21	7	19	30
174	8	2	18	3	4	7	9	11	20	3	3	6	15	18	33	23	20	51
176	4	4	10	2	2	4	19	25	44	5	4	9	26	31	57	30	35	67
178	11	1	24	3	4	7	24	13	37	13	8	21	40	25	65	51	26	89
180	7	8	27	6	3	9	39	23	62	23	15	38	68	41	109	75	49	136
182	15	9	43	10	5	15	41	18	59	25	10	35	76	33	109	91	42	152
184	10	15	47	15	5	20	48	49	97	30	36	66	93	90	183	103	105	230
186	21	17	57	15	16	31	58	69	127	43	25	68	116	110	226	137	127	283
188	15	12	43	25	19	44	91	58	149	72	63	135	188	140	328	203	152	371
190	23	13	46	40	15	55	105	57	162	90	50	140	235	122	357	258	135	403
192	13	12	40	47	34	81	87	90	177	104	87	191	238	211	449	251	223	489
194	14	24	49	45	42	87	112	93	205	119	102	221	276	237	513	290	261	562
196	15	18	37	72	39	111	124	99	223	123	108	231	319	246	565	334	264	602
198	16	20	42	56	41	97	134	111	245	60	78	138	250	230	480	266	250	522
200	9	12	28	78	54	132	109	88	197	58	83	141	245	225	470	254	237	498
202	12	17	33	64	49	113	83	99	182	34	71	105	181	219	400	193	236	433
204	9	9	20	40	65	105	74	82	156	22	51	73	136	198	334	145	207	354
206	9	14	25	44	38	82	39	54	93	22	25	47	105	117	222	114	131	247
208	4	7	14	30	37	67	28	45	73	9	14	23	67	96	163	71	103	177
210	2	6	9	14	27	41	15	41	56	7	13	20	36	81	117	38	87	126
212	4	3	7	10	17	27	11	26	37	2	8	10	23	51	74	27	54	81
214	4	2	8	10	8	18	6	15	21	4	5	9	20	28	48	24	30	56
216	2	3	6	2	8	10	5	11	16	---	2	2	7	21	28	9	24	34
218	2	1	4	3	5	8	---	3	3	---	1	1	3	9	12	5	10	16
220	1	---	1	2	3	5	2	1	3	---	---	---	4	4	8	5	4	9
222	---	1	2	2	---	2	---	---	---	---	1	1	2	1	3	2	2	5
224	1	1	3	---	1	1	---	---	---	---	---	---	---	1	1	1	2	4
226	---	---	---	---	1	1	---	---	---	---	---	---	---	1	1	---	1	1
228	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
230	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
232	---	---	---	---	1	1	---	1	1	---	1	1	---	3	3	---	3	3
234	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
236	---	1	1	---	1	1	---	---	---	---	---	---	---	1	1	---	2	2
Totals	242	243	680[1]	640	546	1186	1284	1203	2487	873	883	1756	2797	2632	5429	3039	2875	6109[1]

[1] Includes some fish, sex unknown.

TABLE 40

LENGTH COMPOSITION OF THE 1938 YEAR-CLASS, AGE 3, IN 1941-42

	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
164	--	1	1													--	1	1
166																		
168																		
170																		
172	--	1	1													--	1	1
174							--	2	2				--	2	2	--	2	2
176							--	3	3				--	3	3	--	3	3
178	1	1	2				1	--	1	3	2	5	4	2	6	5	3	8
180							1	2	3	3	--	3	4	2	6	4	2	6
182	2	--	2				2	1	3	1	2	3	3	3	6	5	3	8
184	1	--	2				--	4	4	8	3	11	8	7	15	9	7	17
186	2	--	2	2	--	2	--	3	3	7	3	10	9	6	15	11	6	17
188	4	--	4	1	1	2	4	4	8	12	11	23	17	16	33	21	16	37
190	2	4	6	--	3	3	6	1	7	23	11	34	29	15	44	31	19	50
192	1	4	5	5	1	6	7	1	8	39	26	65	51	28	79	52	32	84
194	5	3	9	4	1	5	12	6	18	29	27	56	45	34	79	50	37	88
196	2	4	6	10	4	14	20	15	35	51	31	82	81	50	131	83	54	137
198	5	4	10	27	15	42	38	20	58	70	57	127	135	92	227	140	96	237
200	4	--	4	27	17	44	58	32	90	69	59	128	154	108	262	158	108	266
202	6	2	8	48	25	73	54	40	94	46	43	89	148	108	256	154	110	264
204	4	3	7	49	31	80	48	53	101	45	49	94	142	133	275	146	136	282
206	5	4	9	47	32	79	45	43	88	42	51	93	134	126	260	139	130	269
208	2	1	5	42	49	91	47	39	86	28	33	61	117	121	238	119	122	243
210	7	4	13	37	46	83	28	33	61	14	30	44	79	109	188	86	113	201
212	7	5	14	28	36	64	24	40	64	17	21	38	69	97	166	76	102	180
214	5	3	12	42	25	67	22	18	40	11	23	34	75	66	141	80	69	153
216	10	6	18	24	25	49	14	17	31	7	16	23	45	58	103	55	64	121
218	10	6	18	23	36	59	12	19	31	8	12	20	43	67	110	53	73	128
220	8	7	16	11	21	32	12	15	27	9	5	14	32	41	73	40	48	89
222	10	8	19	11	22	33	3	6	9	--	11	11	14	39	53	24	47	72
224	14	11	31	5	11	16	2	7	9	2	3	5	9	21	30	23	32	61
226	9	14	28	5	4	9	5	8	13	3	2	5	13	14	27	22	28	55
228	6	5	12	1	3	4	--	3	3	1	2	3	2	8	10	8	13	22
230	2	3	5	1	--	1	--	1	1	1	3	4	2	4	6	4	7	11
232	1	7	9	--	3	3	--	1	1	1	--	1	1	4	5	2	11	14
234	--	5	5	--	1	1				--	2	2	--	3	3	--	8	8
236	1	4	5							--	1	1	--	1	1	1	5	6
238	1	1	2				1	--	1				1	--	1	2	1	3
240	--	1	1							1	--	1	1	--	1	1	1	2
242	--	1	1													--	1	1
244	--	1	1													--	1	1
246																		
248																		
250																		
252																		
254																		
256																		
258																		
260	--	1	1													--	1	1
Totals	137	125	294[1]	450	412	862	466	437	903	551	539	1090	1467	1388	2855	1604	1513	3149[1]

[1] Includes some fish, sex unknown.

TABLE 41

LENGTH COMPOSITION OF THE 1937 YEAR-CLASS, AGE 4, IN 1941-42

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
186										1	--	1	1	--	1	1	--	1
188																		
190										1	--	1	1	--	1	1	--	1
192				1	--	1				1	1	2	2	1	3	2	1	3
194				--	1	1	1	1	2	4	1	5	5	3	8	5	3	8
196				1	--	1	3	--	3	5	1	6	9	1	10	9	1	10
198				4	--	4	2	1	3	3	3	6	9	4	13	9	4	13
200	1	--	1	3	3	6	5	--	5	5	4	9	13	7	20	14	7	21
202	--	--	1	5	2	7	2	2	4	2	4	6	9	8	17	9	8	18
204	--	--	1	2	3	5	4	2	6	3	3	6	9	8	17	9	8	18
206	--	--	1	3	2	5	10	2	12	2	7	9	15	11	26	15	11	27
208	--	--	2	4	3	7	13	6	19	5	2	7	22	11	33	22	11	35
210	2	--	3	5	1	6	10	5	15	5	4	9	20	10	30	22	10	33
212	1	--	1	12	5	17	7	6	13	5	5	10	24	16	40	25	16	41
214	5	1	10	11	5	16	4	5	9	6	3	9	21	13	34	26	14	44
216	8	2	10	11	7	18	1	6	7	7	2	9	19	15	34	27	17	44
218	10	3	16	7	10	17	6	4	10	3	5	8	16	19	35	26	22	51
220	9	2	14	6	7	13	8	7	15	2	4	6	16	18	34	25	20	48
222	19	7	30	10	10	20	1	4	5	5	4	9	16	18	34	35	25	64
224	25	10	39	5	6	11	1	6	7	3	2	5	9	14	23	34	24	62
226	26	17	47	5	6	11	3	7	10	1	2	3	9	15	24	35	32	71
228	31	13	49	3	2	5	4	2	6	1	3	4	8	7	15	39	20	64
230	26	22	50	2	2	4	1	4	5	--	2	2	3	8	11	29	30	61
232	21	34	58	--	3	3	1	1	2	--	2	2	1	6	7	22	40	65
234	17	27	47	1	2	3	1	3	4	--	1	1	2	6	8	19	33	55
236	12	16	30	--	1	1	1	--	1	--	1	1	1	2	3	13	18	33
238	6	16	24	--	1	1	--	1	1	--	2	2	--	4	4	6	20	28
240	5	9	17							--	1	1	--	1	1	5	10	18
242	2	12	15	--	1	1							--	1	1	2	13	16
244	1	5	6	--	1	1							--	1	1	1	6	7
246	1	1	6							--	1	1	--	1	1	1	2	7
248	1	2	3													1	2	3
250	--	2	2	--	1	1							--	1	1	--	3	3
Totals	229	201	483[1]	101	85	186	89	75	164	70	70	140	260	230	490	489	431	973[1]

[1] Includes some fish, sex unknown.

TABLE 42

LENGTH COMPOSITION OF THE 1936 YEAR-CLASS, AGE 5, IN 1941-42

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
190										--	1	1	--	1	1	--	1	1
192																		
194				--	1	1				--	1	1	--	2	2	--	2	2
196				1	--	1				2	--	2	3	--	3	3	--	3
198				1	--	1	1	--	1	2	1	3	4	1	5	4	1	5
200										1	1	2	1	1	2	1	1	2
202				1	--	1				2	2	4	3	2	5	3	2	5
204				1	--	1	1	--	1	2	1	3	4	1	5	4	1	5
206							1	1	2	2	3	5	3	4	7	3	4	7
208				1	1	2	1	--	1	1	1	2	3	2	5	3	2	5
210							3	--	3	1	--	1	4	--	4	4	--	4
212	--	1	2	5	--	5	1	1	2	--	1	1	6	2	8	6	3	10
214				--	1	1	1	1	2	--	2	2	1	4	5	1	4	5
216	2	--	3	3	--	3	4	2	6	--	1	1	7	3	10	9	3	13
218	1	--	2	2	1	3	1	2	3	1	--	1	4	3	7	5	3	9
220	4	3	9	--	2	2	1	1	2	2	--	2	3	3	6	7	6	15
222	6	1	9	3	2	5	3	1	4	--	1	1	6	4	10	12	5	19
224	14	1	17	--	5	5	1	2	3	1	1	2	2	8	10	16	9	27
226	12	8	20	--	1	1	1	1	2	2	1	3	3	3	6	15	11	26
228	11	9	22	--	1	1							--	1	1	11	10	23
230	8	12	22	2	3	5	--	2	2	--	1	1	2	6	8	10	18	30
232	15	10	26	--	2	2	--	1	1	--	1	1	--	4	4	15	14	30
234	10	8	21													10	8	21
236	11	14	27							--	1	1	--	1	1	11	15	28
238	14	14	30	--	1	1							--	1	1	14	15	31
240	13	15	29	--	2	2							--	2	2	13	17	31
242	4	16	20							--	2	2	--	2	2	4	18	22
244	5	10	17													5	10	17
246	6	10	20							--	1	1	--	1	1	6	11	21
248	1	4	5				--	1	1				--	1	1	1	5	6
250	2	7	9													2	7	9
252	--	7	8													--	7	8
254	2	2	6													2	2	6
256	1	3	4													1	3	4
258	--	1	1	--	1	1							--	1	1	--	2	2
260	--	1	1													--	1	1
262	--	1	1													--	1	1
Totals	142	158	331[1]	20	24	44	20	16	36	19	24	43	59	64	123	201	222	454[1]

[1] Includes some fish, sex unknown.

TABLE 43

LENGTH COMPOSITION OF THE 1935 YEAR-CLASS, AGE 6, IN 1941-42

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
204							--	1	1				--	1	1	--	1	1
206				1	--	1							1	--	1	1	--	1
208							--	1	1				--	1	1	--	1	1
210	--	--	1													--	--	1
212				1	--	1				1	1	2	2	1	3	2	1	3
214							1	1	2	1	--	1	2	1	3	2	1	3
216				--	1	1	1	--	1				1	1	2	1	1	2
218	--	--	1							1	--	1	1	--	1	1	--	2
220										--	1	1	--	1	1	--	1	1
222	1	1	2	--	1	1				1	--	1	1	1	2	2	2	4
224	2	1	3				--	1	1	--	1	1	--	2	2	2	3	5
226	2	1	3							1	--	1	1	--	1	3	1	4
228	2	1	3							--	1	1	--	1	1	2	2	4
230	--	1	1													--	1	1
232	4	--	4	1	--	1							1	--	1	5	--	5
234	3	3	6													3	3	6
236	4	4	8							--	1	1	--	1	1	4	5	9
238	6	3	9													6	3	9
240	4	2	6													4	2	6
242	6	5	11							1	--	1	1	--	1	7	5	12
244	8	6	15													8	6	15
246	6	5	12													6	5	12
248	2	2	5													2	2	5
250	--	5	5													--	5	5
252	3	3	6													3	3	6
254	3	3	6													3	3	6
256	--	1	1													--	1	1
258																		
260	--	--	1													--	--	1
262																		
264	--	--	1													--	--	1
266	--	--	1													--	--	1
268	--	--	1													--	--	1
Totals	56	47	112[1]	3	2	5	2	4	6	6	5	11	11	11	22	67	58	134[1]

[1] Includes some fish, sex unknown.

TABLE 44

LENGTH COMPOSITION OF THE 1934 YEAR-CLASS, AGE 7, IN 1941-42

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
204	--	1	1													--	1	1
206																		
208																		
210																		
212																		
214																		
216																		
218																		
220				1	1	2							1	1	2	1	1	2
222	1	--	1													1	--	1
224	1	--	1	1	--	1							1	--	1	2	--	2
226	1	--	1				--	1	1				--	1	1	1	1	2
228	1	1	2													1	1	2
230	3	--	3													3	--	3
232	1	1	2													1	1	2
234	1	1	2													1	1	2
236																		
238	1	--	1													1	--	1
240	1	1	2													1	1	2
242	2	1	4													2	1	4
244	1	3	5													1	3	5
246	3	--	4													3	--	4
248	1	2	3							--	1	1	--	1	1	1	3	4
250	1	2	4													1	2	4
252	1	4	5													1	4	5
254	1	3	5													1	3	5
256	2	1	3													2	1	3
258	--	1	1													--	1	1
260	--	4	5													--	4	5
262	--	--	1				--	1	1				--	1	1	--	1	2
264	--	2	3										--			--	2	3
266	--	1	1													--	1	1
268	--	1	1														1	1
270	--	1	1													--	1	1
Totals	23	31	62[1]	2	1	3	--	2	2	--	1	1	2	4	6	25	35	68[1]

[1] Includes some fish, sex unknown.

TABLE 45

LENGTH COMPOSITION OF THE 1933, 1932, 1931, AND 1930 YEAR-CLASSES IN 1941-42

	1933 Year-class, age 8									1932 Year-class, age 9			1931 Year-class, age 10			1930 Year-class, age 11		
	Pacific Northwest			California[1]			Grand Total[1]			Grand Total[2]			Grand Total[2]			Grand Total[2]		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
212				1	--	1	1	--	1									
214																		
216																		
218																		
220																		
222																		
224																		
226																		
228																		
230																		
232																		
234																		
236	1	--	1				1	--	1									
238	1	1	2				1	1	2									
240	1	--	1				1	--	1				1	--	1			
242																		
244	--	1	2				--	1	2	2	--	2						
246	1	--	2				1	--	2									
248	3	--	3				3	--	3	2	--	2						
250	3	--	3				3	--	3									
252	2	--	2				2	--	2	--	1	1						
254	--	2	3				--	2	3	1	--	1						1
256	1	2	4				1	2	4									
258	--	1	2				--	1	2				1	--	1	--	1	1
260	1	1	3				1	1	3	--	1	1	--	1	1			
262	--	2	2				--	2	2	1	--	1						
264													--	1	1			
266	--	1	1				--	1	1	1	1	2				1	--	1
268																--	1	1
270																--	1	1
272																		
274																		
276																		
278																		
280	--	1	1				--	1	1									
Totals	14	12	32[3]	1	--	1	15	12	33[3]	7	3	10	2	2	4	1	3	5[3]

[1] Year-class represented in California only at San Francisco.
[2] Year-class represented in Pacific Northwest only.
[3] Includes some fish, sex unknown.

TABLE 46

LENGTH COMPOSITION OF THE 1941 YEAR-CLASS, AGE 1, IN 1942-43

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
146							2	4	6				2	4	6	2	4	6
148							4	--	4				4	--	4	4	--	4
150							6	2	8				6	2	8	6	2	8
152																		
154							2	7	9				2	7	9	2	7	9
156							2	4	6				2	4	6	2	4	6
158							9	--	9	--	2	2	9	2	11	9	2	11
160							5	5	10				5	5	10	5	5	10
162							6	9	15	1	--	1	7	9	16	7	9	16
164							10	8	18	--	3	3	10	11	21	10	11	21
166							8	2	10	6	--	6	14	2	16	14	2	16
168							3	3	6	7	4	11	10	7	17	10	7	17
170							1	4	5	13	2	15	14	6	20	14	6	20
172							1	7	8	18	8	26	19	15	34	19	15	34
174				2	--	2	6	2	8	22	17	39	30	19	49	30	19	49
176							2	2	4	23	22	45	25	24	49	25	24	49
178							1	--	1	26	25	51	27	25	52	27	25	52
180										30	22	52	30	22	52	30	22	52
182				2	--	2	2	--	2	26	24	50	30	24	54	30	24	54
184							1	2	3	22	23	45	23	25	48	23	25	48
186										11	20	31	11	20	31	11	20	31
188							--	2	2	11	14	25	11	16	27	11	16	27
190							2	--	2	8	13	21	10	13	23	10	13	23
192										6	13	19	6	13	19	6	13	19
194										5	9	14	5	9	14	5	9	14
196										2	3	5	2	3	5	2	3	5
198										2	10	12	2	10	12	2	10	12
200							--	1	1	1	1	2	1	2	3	1	2	3
202										--	1	1	--	1	1	--	1	1
204	1	--	1													1	--	1
206																		
208	1	--	1													1	--	1
210																		
212																		
214																		
216	--	1	1													--	1	1
218	2	--	2													2	--	2
220	--	1	1													--	1	1
Totals	4	2	6	4	--	4	73	64	137	240	236	476	317	300	617	321	302	623

TABLE 47

LENGTH COMPOSITION OF THE 1940 YEAR-CLASS, AGE 2, IN 1942-43

	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
Length mm.	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
154								2	2					2	2		2	2
156																		
158																		
160																		
162																		
164																		
166								2	2		1	1		3	3		3	3
168								1	1	1		1	1	1	2	1	1	2
170										1		1	1		1	1		1
172										1	3	4	1	3	4	1	3	4
174										4	3	7	4	3	7	4	3	7
176								1	1	7	4	11	7	5	12	7	5	12
178										17	13	30	17	13	30	17	13	30
180							2		2	13	17	30	15	17	32	15	17	32
182								2	2	28	17	45	28	19	47	28	19	47
184							5	5	10	17	17	34	22	22	44	22	22	44
186		1	1				2	1	3	28	26	54	30	27	57	30	28	58
188	2		2		2	2		2	2	27	26	53	27	30	57	29	30	59
190	2	1	3	1		1	6	4	10	32	34	66	39	38	77	41	39	80
192	1	2	3	2		2	8	4	12	32	36	68	42	40	82	43	42	85
194				4		4	6	6	12	45	42	87	55	48	103	55	48	103
196	4	4	8	8		8	14	13	27	47	43	90	69	56	125	73	60	133
198	7	4	11	6	5	11	22	20	42	31	44	75	59	69	128	66	73	139
200	4	7	12	5	3	8	34	14	48	70	57	127	109	74	183	113	81	195
202	5	3	8	8	8	16	35	22	57	43	53	96	86	83	169	91	86	177
204	1	3	4	5	8	13	42	30	72	43	48	91	90	86	176	91	89	180
206	4	8	12	10	12	22	29	20	49	51	49	100	90	81	171	94	89	183
208	2	5	7	13	9	22	31	28	59	37	42	79	81	79	160	83	84	167
210	3	2	5	6	11	17	26	35	61	37	41	78	69	87	156	72	89	161
212	4	2	6	7	14	21	20	25	45	23	37	60	50	76	126	54	78	132
214	1	2	3	5	11	16	17	27	44	13	27	40	35	65	100	36	67	103
216		1	1	7	9	16	7	22	29	4	19	23	18	50	68	18	51	69
218		2	2	2	9	11	7	15	22	4	7	11	13	31	44	13	33	46
220				2	6	8	3	10	13	1	6	7	6	22	28	6	22	28
222		1	1	2	2	4	4	4	8		2	2	6	8	14	6	9	15
224				1	1	2	1	1	2				2	2	4	2	2	4
226	1	1	2				1	1	2		2	2	1	3	4	2	4	6
228					1	1		2	2					3	3		3	3
Totals	41	49	91[1]	94	111	205	322	319	641	657	716	1373	1073	1146	2219	1114	1195	2310[1]

[1] Includes one fish, sex unknown.

TABLE 48

LENGTH COMPOSITION OF THE 1939 YEAR-CLASS, AGE 3, IN 1942-43

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
174										1		1	1		1	1		1
176										3	3	6	3	3	6	3	3	6
178		2	2							5	1	6	5	1	6	5	3	8
180										1	2	3	1	2	3	1	2	3
182		1	1							4	8	12	4	8	12	4	9	13
184		2	2							3	5	8	3	5	8	3	7	10
186	2		2					1	1	7	4	11	7	5	12	9	5	14
188	2		2							12	9	21	12	9	21	14	9	23
190	1	6	7				1		1	10	12	22	11	12	23	12	18	30
192		3	3	2		2	4		4	20	20	40	26	20	46	26	23	49
194	3	4	7	1		1	1	4	5	16	18	34	18	22	40	21	26	47
196	2	4	6	5	6	11	4	3	7	28	9	37	37	18	55	39	22	61
198	4	6	10	8	2	10	13	6	19	29	21	50	50	29	79	54	35	89
200	8	2	10	5	1	6	18	8	26	39	23	62	62	32	94	70	34	104
202	7	1	8	8	7	15	34	15	49	54	36	90	96	58	154	103	59	162
204	6	5	11	23	5	28	45	23	68	66	48	114	134	76	210	140	81	221
206	6	12	18	36	33	69	51	40	91	79	61	140	166	134	300	172	146	318
208	8	6	14	55	23	78	82	34	116	85	63	148	222	120	342	230	126	356
210	10	9	19	67	39	106	94	71	165	56	57	113	217	167	384	227	176	403
212	10	18	28	66	66	132	110	68	178	43	63	106	219	197	416	229	215	444
214	14	10	24	77	64	141	109	92	201	46	64	110	232	220	452	246	230	476
216	9	16	25	82	68	150	78	61	139	26	34	60	186	163	349	195	179	374
218	19	18	37	70	63	133	79	99	178	15	23	38	164	185	349	183	203	386
220	16	19	35	51	60	111	52	76	128	10	25	35	113	161	274	129	180	309
222	12	16	28	43	62	105	44	49	93	3	11	14	90	122	212	102	138	240
224	13	11	24	25	45	70	24	44	68	1	6	7	50	95	145	63	106	169
226	7	10	17	21	35	56	20	26	46	2	3	5	43	64	107	50	74	124
228	5	5	10	17	32	49	17	28	45		2	2	34	62	96	39	67	106
230	3	4	7	10	13	23	8	17	25		1	1	18	31	49	21	35	56
232	5	1	6	4	17	21	3	7	10	1	2	3	8	26	34	13	27	40
234	3	4	7	1	7	8	3	4	7				4	11	15	7	15	22
236	3	2	5	2	7	9	1	1	2				3	8	1	6	10	16
238		4	4	3	4	7		7	7		1	1	3	12	15	3	16	19
240	2	1	3		2	2		3	3	1		1	1	5	6	3	6	9
242	2	1	3		1	1	1	1	2				1	2	3	3	3	6
244	2	1	3		1	1								1	1	2	2	4
246					1	1								1	1		1	1
248																		
250																		
252																		
254																		
256																		
258	1	1	2													1	1	2
Totals	185	205	390	682	664	1346	896	788	1684	666	635	1301	2244	2087	4331	2429	2292	4721

TABLE 49

LENGTH COMPOSITION OF THE 1938 YEAR-CLASS, AGE 4, IN 1942-43

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
186										2	--	2	2	--	2	2	--	2
188										2	2	4	2	2	4	2	2	4
190																		
192							1	--	1	3	1	4	4	1	5	4	1	5
194							1	--	1	3	4	7	4	4	8	4	4	8
196				2	--	2	--	1	1	9	3	12	11	4	15	11	4	15
198							2	--	2	5	5	10	7	5	12	7	5	12
200	--	1	1	2	--	2	3	--	3	13	7	20	18	7	25	18	8	26
202				3	--	3	7	1	8	14	10	24	24	11	35	24	11	35
204				5	2	7	13	3	16	20	6	26	38	11	49	38	11	49
206				11	2	13	20	3	23	26	17	43	57	22	79	57	22	79
208				6	7	13	15	18	33	29	11	40	50	36	86	50	36	86
210	1	2	3	12	5	17	20	11	31	21	16	37	53	32	85	54	34	88
212	2	1	3	23	11	34	22	17	39	32	23	55	77	51	128	79	52	131
214	4	1	5	31	22	53	32	34	66	19	32	51	82	88	170	86	89	175
216	2	1	3	34	29	63	41	19	60	16	21	37	91	69	160	93	70	163
218	--	1	1	47	20	67	37	25	62	12	11	23	96	56	152	96	57	153
220	1	--	1	47	26	73	35	26	61	11	12	23	93	64	157	94	64	158
222	5	2	7	36	38	74	26	26	52	3	8	11	65	72	137	70	74	144
224	6	3	9	31	36	67	33	27	60	1	1	2	65	64	129	71	67	138
226	2	6	8	27	27	54	11	19	30	2	8	10	40	54	94	42	60	102
228	1	6	7	26	25	51	17	23	40	1	1	2	44	49	93	45	55	100
230	5	2	7	20	33	53	15	9	24	--	2	2	35	44	79	40	46	86
232	3	4	7	11	17	28	8	13	21	--	1	1	19	31	50	22	35	57
234	9	1	10	3	12	15	10	15	25				13	27	40	22	28	50
236	3	8	11	8	9	17	7	7	14				15	16	31	18	24	42
238	1	2	3	5	6	11	2	6	8	--	1	1	7	13	20	8	15	23
240	4	2	6	3	5	8	2	5	7	--	1	1	5	11	16	9	13	22
242	3	2	5	4	1	5	--	4	4				4	5	9	7	7	14
244	--	2	2	1	2	3	1	3	4				2	5	7	2	7	9
246	2	2	4	--	2	2	--	3	3	--			--	5	5	2	7	9
248	--	1	1				--	1	1				--	1	1	--	2	2
250	--	1	1													--	1	1
252	--	2	2													--	2	2
254	--	1	1	--	1	1							--	1	1	--	2	2
256	--	2	2													--	2	2
258	1	--	1													1	--	1
Totals	55	56	111	398	338	736	381	319	700	244	204	448	1023	861	1884	1078	917	1995

TABLE 50

LENGTH COMPOSITION OF THE 1937 YEAR-CLASS, AGE 5, IN 1942-43

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
196	--	1	1							1	--	1	1	--	1	1	1	2
198							1	--	1				1	--	1	1	--	1
200																		
202										2	--	2	2	--	2	2	--	2
204										4	1	5	4	1	5	4	1	5
206				2	--	2	2	--	2	2	1	3	6	1	7	6	1	7
208				1	1	2	1	--	1	2	4	6	4	5	9	4	5	9
210	--	1	1	6	1	7	4	2	6				10	3	13	10	4	14
212	1	--	1	4	1	5				6	1	7	10	2	12	11	2	13
214				7	2	9	2	2	4	3	3	6	12	7	19	12	7	19
216				10	2	12	3	--	3	8	3	11	21	5	26	21	5	26
218	1	--	1	12	4	16	3	3	6	4	2	6	19	9	28	20	9	29
220				10	4	14	4	4	8	1	--	1	15	8	23	15	8	23
222	1	--	1	12	13	25	6	2	8	2	3	5	20	18	38	21	18	39
224	1	--	1	10	4	14	6	5	11	--	3	3	16	12	28	17	12	29
226	1	--	1	16	7	23	11	4	15				27	11	38	28	11	39
228	1	2	3	10	7	17	5	3	8	1	--	1	16	10	26	17	12	29
230	3	2	5	9	7	16	8	9	17	--	1	1	17	17	34	20	19	39
232	2	1	3	8	12	20	6	9	15				14	21	35	16	22	38
234	3	5	8	7	14	21	7	6	13				14	20	34	17	25	42
236	6	1	7	7	13	20	3	6	9				10	19	29	16	20	36
238	3	5	8	2	5	7	6	5	11				8	10	18	11	15	26
240	3	7	10	--	6	6	3	4	7				3	10	13	6	17	23
242	4	6	10	1	4	5	4	2	6				5	6	11	9	12	21
244	3	4	7	1	3	4	--	2	2				1	5	6	4	9	13
246	1	7	8	1	1	2	--	1	1				1	2	3	2	9	11
248	3	4	7	4	1	5	2	2	4				6	3	9	9	7	16
250	2	1	3	--	3	3							--	3	3	2	4	6
252	--	5	5	--	1	1	--	2	2				--	3	3	--	8	8
254	--	1	1				--	1	1				--	1	1	--	2	2
256	--	1	1													--	1	1
258																		
260	1	1	2													1	1	2
Totals	40	55	95	140	116	256	87	74	161	36	22	58	263	212	475	303	267	570

TABLE 51

LENGTH COMPOSITION OF THE 1936 YEAR-CLASS, AGE 6, IN 1942-43

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
196											1	1		1	1		1	1
198																		
200																		
202											2	2		2	2		2	2
204										1		1	1		1	1		1
206																		
208							1	2	3		1	1	1	3	4	1	3	4
210							1		1		1	1	1	1	2	1	1	2
212																		
214					1	1		1	1					2	2		2	2
216				2	1	3							2	1	3	2	1	3
218				3		3	2		2	2	2	4	7	2	9	7	2	9
220				6	1	7	1	2	3	1		1	8	3	11	8	3	11
222				5	1	6	2		2		1	1	7	2	9	7	2	9
224				4	1	5	3		3				7	1	8	7	1	8
226	2	1	3	3	1	4	2	3	5	1	1	2	6	5	11	8	6	14
228		1	1	6	2	8	4	3	7				10	5	15	10	6	16
230				6	3	9	1	1	2				7	4	11	7	4	11
232	2	1	3	1	7	8		4	4				1	11	12	3	12	15
234	3		3	2	3	5		4	4				2	7	9	5	7	12
236	1	2	3	3	3	6	1	1	2		1	1	4	5	9	5	7	12
238	3	1	4	1	1	2		5	5				1	6	7	4	7	11
240	3	3	6	3	3	6	2		2				5	3	8	8	6	14
242	3	1	4		4	4		2	2					6	6	3	7	10
244		2	2		1	1		1	1					2	2		4	4
246	1	3	4		1	1		1	1					2	2	1	5	6
248	3	2	5		1	1								1	1	3	3	6
250					3	3	1		1				1	3	4	1	3	4
252	3	2	5		1	1								1	1	3	3	6
254	1	3	4													1	3	4
256		1	1		1	1								1	1		2	2
258		1	1				1	1	2				1	1	2	1	2	3
260		1	1														1	1
262		1	1					1	1					1	1		2	2
264		1	1														1	1
266																		
268				1		1	1		1				2		2	2		2
270		1	1														1	1
Totals	25	28	53	46	40	86	23	32	55	5	10	15	74	82	156	99	110	209

TABLE 52

LENGTH COMPOSITION OF THE 1935 YEAR-CLASS, AGE 7, IN 1942-43

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
202											1	1		1	1		1	1
204																		
206																		
208																		
210																		
212																		
214							1		1				1		1	1		1
216																		
218							1		1				1		1	1		1
220										1		1	1		1	1		1
222				2		2	2		2				4		4	4		4
224	1		1				2		2				2		2	3		3
226																		
228				1		1							1		1	1		1
230		1	1	1		1							1		1	1	1	2
232																		
234	1		1	1	1	2		1	1				1	2	3	2	2	4
236																		
238		1	1				1		1				1		1	1	1	2
240							1		1				1		1	1		1
242					1	1								1	1		1	1
244	1	1	2		1	1								1	1	1	2	3
246	1	1	2	1		1							1		1	2	1	3
248		1	1														1	1
250		2	2														2	2
252				1		1							1		1	1		1
254	1		1													1		1
256																		
258					1	1		2	2					3	3		3	3
260																		
262																		
264																		
266																		
268																		
270					1	1								1	1		1	1
Totals	5	7	12	7	5	12	8	3	11	1	1	2	16	9	25	21	16	37

TABLE 53

LENGTH COMPOSITION OF THE 1934, 1933 AND 1931 YEAR-CLASSES IN 1942-43

Length mm.	1934, Year-class, age 8									1933, Year-class, age 9			1931, Year-class, age 11		
	Pacific Northwest			California[1]			Grand Total			Grand Total[2]			Grand Total[2]		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
234				1	--	1	1	--	1						
236															
238															
240															
242				--	1	1	--	1	1						
244															
246	1	--	1				1	--	1						
248															
250	--	1	1				--	1	1	--	1	1			
252	--	1	1				--	1	1						
254															
256															
258	1	1	2				1	1	2						
260													--	1	1
262															
264													--	1	1
266	--	1	1				--	1	1						
268				--	1	1	--	1	1						
Totals	2	4	6	1	2	3	3	6	9	--	1	1	--	2	2

[1] Year-class represented in California only at San Francisco.
[2] Year-class represented in Pacific Northwest only.

TABLE 54

LENGTH COMPOSITION OF THE 1942 YEAR-CLASS, AGE 1, IN 1943-44

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
116			1															1
132							1		1				1		1	1		1
134								1	1					1	1		1	1
136								1	1					1	1		1	1
138							1	3	4				1	3	4	1	3	4
140								3	3					3	3		3	3
142								3	3					3	3		3	3
144							2	4	6				2	4	6	2	4	6
146							2	4	6				2	4	6	2	4	6
148			1				7	4	11				7	4	11	7	4	12
150	1	1	2	1		1	7	5	12				8	5	13	9	6	15
152							14	16	30		1	1	14	17	31	14	17	31
154				1		1	18	13	31				19	13	32	19	13	32
156							18	12	30	3	3	6	21	15	36	21	15	36
158					1	1	19	29	48	4	2	6	23	32	55	23	32	55
160				1	2	3	26	24	50	2	2	4	29	28	57	29	28	57
162				1		1	23	24	47	5	3	8	29	27	56	29	27	56
164				1	3	4	27	25	52	6	4	10	34	32	66	34	32	66
166				1	2	3	29	13	42	5	4	9	35	19	54	35	19	54
168					1	1	18	15	33	15	10	25	33	26	59	33	26	59
170					2	2	15	17	32	15	11	26	30	30	60	30	30	60
172				3	2	5	17	18	35	15	8	23	35	28	63	35	28	63
174				3	2	5	11	13	24	15	11	26	29	26	55	29	26	55
176				1	3	4	11	12	23	21	10	31	33	25	58	33	25	58
178				2	3	5	4	7	11	23	24	47	29	34	63	29	34	63
180				1	5	6	7	1	8	25	17	42	33	23	56	33	23	56
182					1	1	4		4	20	17	37	24	18	42	24	18	42
184				1		1	2	2	4	12	8	20	15	10	25	15	10	25
186				1		1	4	1	5	16	16	32	21	17	38	21	17	38
188							1	1	2	15	8	23	16	9	25	16	9	25
190								1	1	12	14	26	12	15	27	12	15	27
192							1	1	2	11	14	25	12	15	27	12	15	27
194					1	1		2	2	10	11	21	10	14	24	10	14	24
196								2	2	4	9	13	4	11	15	4	11	15
198							1		1	3	9	12	4	9	13	4	9	13
200					1	1				1	5	6	1	6	7	1	6	7
202					1	1					2	2		3	3		3	3
204							1		1	1		1	2		2	2		2
206																		
208											1	1		1	1		1	1
210										1		1	1		1	1		1
212																		
214										1		1	1		1	1		1
216																		
218																		
220							1		1				1		1	1		1
222																		
224																		
226																		
228																		
230																		
232								1	1					1	1		1	1
Totals	1	1	4[1]	18	30	48	292	278	570	261	224	485	571	532	1103	572	533	1107[1]

[1] Includes some fish, sex unknown.

TABLE 55

LENGTH COMPOSITION OF THE 1941 YEAR-CLASS, AGE 2, IN 1943-44

Length mm.	San Francisco			Monterey			San Pedro			Grand Total[1]		
	M	F	T	M	F	T	M	F	T	M	F	T
152				1	1	2				1	1	2
154												
156								1	1		1	1
158				3	1	4				3	1	4
160				1	1	2				1	1	2
162				1	1	2				1	1	2
164	1		1	3	3	6				4	3	7
166				2		2	1	2	3	3	2	5
168	2		2		3	3		3	3	2	6	8
170				2	3	5	3	3	6	5	6	11
172				2	2	4	8	3	11	10	5	15
174	1		1	5	3	8	5	7	12	11	10	21
176				1	1	2	15	6	21	16	7	23
178	1	1	2	1	1	2	8	7	15	10	9	19
180				2	1	3	7	9	16	9	10	19
182		1	1				11	6	17	11	7	18
184		2	2	2		2	13	5	18	15	7	22
186							13	5	18	13	5	18
188				1	6	7	28	20	48	29	26	55
190				4	1	5	39	26	65	43	27	70
192				3		3	51	28	79	54	28	82
194				8	1	9	69	40	109	77	41	118
196	2	1	3	8	7	15	69	40	109	79	48	127
198				11	8	19	47	60	107	58	68	126
200		1	1	12	8	20	55	63	118	67	72	139
202	1	1	2	13	9	22	32	49	81	46	59	105
204	2	1	3	7	7	14	38	45	83	47	53	100
206		1	1	12	12	24	24	35	59	36	48	84
208	2	3	5	4	10	14	12	24	36	18	37	55
210	1		1	4	3	7	8	16	24	13	19	32
212	2	2	4	7	5	12	6	8	14	15	15	30
214	1	2	3	7	4	11	8	7	15	16	13	29
216	2	1	3	3	3	6	2	10	12	7	14	21
218	4	3	7	3	3	6	1	4	5	8	10	18
220	2	3	5	2	1	3		3	3	4	7	11
222				2	3	5	1	1	2	3	4	7
224	1		1	2	2	4	1		1	4	2	6
226		1	1					1	1		2	2
228		1	1		1	1					2	2
230												
232												
234		1	1		1	1					2	2
Totals	25	26	51	139	116	255	575	537	1112	739	679	1418

[1] Year-class represented in California only.

TABLE 56

LENGTH COMPOSITION OF THE 1940 YEAR-CLASS, AGE 3, IN 1943-44

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
178											1	1		1	1		1	1
180																		
182							1		1	3	2	5	4	2	6	4	2	6
184										1		1	1		1	1		1
186										6		6	6		6	6		6
188										10	1	11	10	1	11	10	1	11
190										12	6	18	12	6	18	12	6	18
192					1	1	1	2	3	29	9	38	30	12	42	30	12	42
194										22	14	36	22	14	36	22	14	36
196	1		1	1		1	2	2	4	35	35	70	38	37	75	39	37	76
198					1	1	2	1	3	28	27	55	30	29	59	30	29	59
200							3	7	10	26	42	68	29	49	78	29	49	78
202	2		2				5	5	10	37	24	61	42	29	71	44	29	73
204				1	2	3	9	1	10	25	26	51	35	29	64	35	29	64
206		3	3	2	1	3	10	5	15	24	38	62	36	44	80	36	47	83
208	1		1	2	1	3	13	6	19	22	32	54	37	39	76	38	39	77
210	3		3	7	5	12	13	5	18	21	30	51	41	40	81	44	40	84
212	4		4	11	7	18	28	13	41	18	20	38	57	40	97	61	40	101
214	1	1	2	12	9	21	31	22	53	10	18	28	53	49	102	54	50	104
216	5	4	9	28	15	43	43	29	72	19	16	35	90	60	150	95	64	159
218	6	1	7	28	23	51	68	28	96	16	19	35	112	70	182	118	71	189
220	5		5	40	21	61	56	51	107	8	14	22	104	86	190	109	86	195
222	9	1	10	41	29	70	45	60	105	10	11	21	96	100	196	105	101	206
224	3	2	5	27	30	57	49	57	106	4	8	12	80	95	175	83	97	180
226	2	5	7	22	46	68	31	43	74	7	8	15	60	97	157	62	102	164
228	7	1	8	14	32	46	23	35	58	3	11	14	40	78	118	47	79	126
230	4	1	5	18	27	45	10	29	39	3	6	9	31	62	93	35	63	98
232	7	2	9	5	18	23	14	25	39	1	7	8	20	50	70	27	52	79
234		2	2	3	13	16	11	13	24		4	4	14	30	44	14	32	46
236	3	2	5	1	8	9	8	11	19	1		1	10	19	29	13	21	34
238	2	3	5	4	11	15	1	7	8	2		2	7	18	25	9	21	30
240	1	1	2	1	3	4	2	4	6		1	1	3	8	11	4	9	13
242		1	1				1	5	6		1	1	1	6	7	1	7	8
244								1	1					1	1		1	1
246		2	2														2	2
248		2	2		2	2	1	1	2				1	3	4	1	5	6
250					1	1								1	1		1	1
252																		
254																		
256		1	1														1	1
Totals	66	35	101	268	306	574	481	468	949	403	431	834	1152	1205	2357	1218	1240	2458

TABLE 57

LENGTH COMPOSITION OF THE 1939 YEAR-CLASS, AGE 4, IN 1943-44

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
188										3	1	4	3	1	4	3	1	4
190							3		3	3		3	6		6	6		6
192								1	1	2	2	4	2	3	5	2	3	5
194										10		10	10		10	10		10
196										10	7	17	10	7	17	10	7	17
198				1	1	2	1	1	2	13	12	25	15	14	29	15	14	29
200							2		2	15	8	23	17	8	25	17	8	25
202							1	2	3	12	9	21	13	11	24	13	11	24
204				2		2	3	2	5	13	13	26	18	15	33	18	15	33
206				1		1	2	1	3	14	5	19	17	6	23	17	6	23
208	1		1	2		2	8	2	10	12	7	19	22	9	31	23	9	32
210	1		1	4		4	15	7	22	15	7	22	34	14	48	35	14	49
212	1	1	2	11	3	14	16	8	24	16	7	23	43	18	61	44	19	63
214	2		2	13	5	18	32	8	40	16	10	26	61	23	84	63	23	86
216	5	2	7	26	6	32	31	23	54	14	19	33	71	48	119	76	50	126
218	5	1	6	29	11	40	45	23	68	15	14	29	89	48	137	94	49	143
220	2	3	5	34	31	65	52	30	82	15	13	28	101	74	175	103	77	180
222	10	7	17	51	28	79	54	33	87	6	16	22	111	77	188	121	84	205
224	17	5	22	47	40	87	72	48	120	11	6	17	130	94	224	147	99	246
226	10	11	21	45	41	86	61	52	113	4	8	12	110	101	211	120	112	232
228	15	9	24	50	65	115	68	48	116	7	11	18	125	124	249	140	133	273
230	19	5	24	37	47	84	42	56	98	5	10	15	84	113	197	103	118	221
232	15	13	28	37	47	84	25	45	70	1	7	8	63	99	162	78	112	190
234	21	10	31	21	35	56	29	42	71	2	3	5	52	80	132	73	90	163
236	12	9	21	18	31	49	23	36	59	1	2	3	42	69	111	54	78	132
238	13	9	22	9	25	34	10	29	39		1	1	19	55	74	32	64	96
240	3	10	13	13	27	40	6	18	24	2	3	5	21	48	69	24	58	82
242	7	12	19	6	15	21	3	18	21		2	2	9	35	44	16	47	63
244	9	11	20	3	14	17	2	10	12		2	2	5	26	31	14	37	51
246	3	12	15	1	10	11	3	4	7				4	14	18	7	26	33
248	1	8	9	1	9	10		5	5				1	14	15	2	22	24
250	1	2	3	1	2	3	1	3	4				2	5	7	3	7	10
252		3	3		2	2		1	1					3	3		6	6
254	1	1	2								1	1		1	1	1	2	3
256		3	3				1		1				1		1	1	3	4
258		1	1		1	1								1	1		2	2
Totals	174	148	322	463	496	959	611	556	1167	237	206	443	1311	1258	2569	1485	1406	2891

TABLE 58

LENGTH COMPOSITION OF THE 1938 YEAR-CLASS, AGE 5, IN 1943-44

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
196										2	1	3	2	1	3	2	1	3
198										2	--	2	2	--	2	2	--	2
200										1	--	1	1	--	1	1	--	1
202										--	1	1	--	1	1	--	1	1
204										--	1	1	--	1	1	--	1	1
206				1	--	1	--	1	1	3	1	4	4	2	6	4	2	6
208							2	1	3	3	--	3	5	1	6	5	1	6
210							3	--	3	1	1	2	4	1	5	4	1	5
212							4	--	4	2	2	4	6	2	8	6	2	8
214	1	-	1	6	1	7	7	2	9	10	2	12	23	5	28	24	5	29
216				5	-	5	8	4	12	6	2	8	19	6	25	19	6	25
218	3	--	3	6	1	7	9	7	16	6	5	11	21	13	34	24	13	37
220	2	--	2	10	1	11	17	4	21	4	3	7	31	8	39	33	8	41
222	6	--	6	14	8	22	15	11	26	3	5	8	32	24	56	38	24	62
224	6	--	6	22	14	36	15	16	31	5	2	7	42	32	74	48	32	80
226	5	1	6	9	7	16	11	9	20	3	3	6	23	19	42	28	20	48
228	6	2	8	10	15	25	24	14	38	--	5	5	34	34	68	40	36	76
230	8	2	10	13	13	26	14	19	33	1	--	1	28	32	60	36	34	70
232	5	1	6	10	22	32	10	14	24	1	3	4	21	39	60	26	40	66
234	6	3	9	13	22	35	15	12	27	--	1	1	28	35	63	34	38	72
236	11	9	20	11	9	20	13	6	19	--	2	2	24	17	41	35	26	61
238	7	3	10	8	15	23	4	13	17	1	1	2	13	29	42	20	32	52
240	7	7	14	6	16	22	5	9	14	1	1	2	12	26	38	19	33	52
242	4	3	7	6	13	19	5	13	18				11	26	37	15	29	44
244	5	7	12	--	8	8	4	7	11				4	15	19	9	22	31
246	4	6	10	5	7	12	3	1	4				8	8	16	12	14	26
248	1	3	4	2	3	5	-	4	4				2	7	9	3	10	13
250	3	4	7	2	6	8	--	5	5				2	11	13	5	15	20
252	--	4	4	1	3	4	--	2	2				1	5	6	1	9	10
254	5	5	10				--	3	3				--	3	3	5	8	13
256	--	3	3	1	--	1							1	--	1	1	3	4
258	--	2	2	--	2	2	--	1	1				-	3	3	--	5	5
260	--	2	2	--	1	1							--	1	1	--	3	3
262																		
264	1	1	2				--	1	1				--	1	1	1	2	3
Totals	96	68	164	161	187	348	188	179	367	55	42	97	404	408	812	500	476	976

TABLE 59

LENGTH COMPOSITION OF THE 1937 YEAR-CLASS, AGE 6, IN 1943-44

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
206										--	1	1	--	1	1	--	1	1
208										2	--	2	2	--	2	2	--	2
210																		
212																		
214	1	--	1				2	--	2				2	--	2	3	--	3
216				1	--	1	1	--	1	3	1	4	5	1	6	5	1	6
218				--	1	1	3	--	3	1	1	2	4	2	6	4	2	6
220	1	--	1	--	1	1	2	--	2				2	1	3	3	1	4
222				1	--	1	3	2	5	1	3	4	5	5	10	5	5	10
224	1	2	3	--	1	1	1	2	3	1	--	1	2	3	5	3	5	8
226	2	1	3	3	--	3	3	2	5	1	1	2	7	3	10	9	4	13
228	2	--	2	2	2	4	3	5	8	1	--	1	6	7	13	8	7	15
230	4	--	4	4	2	6	3	4	7				7	6	13	11	6	17
232	3	2	5	2	2	4	5	1	6	1	--	1	8	3	11	11	5	16
234	2	1	3	5	3	8	4	2	6	--	1	1	9	6	15	11	7	18
236	2	3	5	8	5	13	5	3	8				13	8	21	15	11	26
238	5	2	7	2	4	6	7	2	9	1	--	1	10	6	16	15	8	23
240	4	2	6	3	6	9	3	5	8	--	1	1	6	12	18	10	14	24
242	3	2	5	4	4	8	1	6	7	--	1	1	5	11	16	8	13	21
244	3	5	8	2	2	4	2	2	4				4	4	8	7	9	16
246	5	3	8	1	4	5	1	1	2				2	5	7	7	8	15
248	2	4	6	1	5	6	1	2	3				2	7	9	4	11	15
250	--	3	3	--	2	2	1	1	2				1	3	4	1	6	7
252	3	2	5	1	5	6	--	2	2				1	7	8	4	9	13
254	2	1	3				2	--	2				2	--	2	4	1	5
256	2	4	6	--	1	1	1	--	1				1	1	2	3	5	8
258				--	1	1							--	1	1	--	1	1
260	2	3	5				--	2	2				--	2	2	2	5	7
262	--	5	5	--	1	1							--	1	1	--	6	6
264	1	2	3	--	1	1							--	1	1	1	3	4
266	--	2	2													--	2	2
268	1	2	3	--												1	2	3
270	--	1	1													--	1	1
272	--	1	1													--	1	1
Totals	51	53	104	40	53	93	54	44	98	12	10	22	106	107	213	157	160	317

TABLE 60

LENGTH COMPOSITION OF THE 1936 YEAR-CLASS, AGE 7, IN 1943-44

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
208							1	--	1				1	--	1	1	--	1
210																		
212																		
214																		
216																		
218				1	--	1	1	--	1				2	--	2	2	--	2
220																		
222																		
224							1	--	1				1	--	1	1	--	1
226				1	1	2	1	--	1	1	--	1	3	1	4	3	1	4
228				--	1	1							--	1	1	--	1	1
230	1	--	1	1	1	2							1	1	2	2	1	3
232	1	--	1	1	1	2	--	2	2				1	3	4	2	3	5
234	2	--	2	--	1	1							--	1	1	2	1	3
236	3	--	3	1	--	1	2	1	3				3	1	4	6	1	7
238	2	1	3	1	1	2	2	--	2				3	1	4	5	2	7
240	1	--	1	1	1	2	1	--	1	1	--	1	3	1	4	4	1	5
242	3	--	3	3	1	4	1	--	1				4	1	5	7	1	8
244	1	1	2	--	4	4							--	4	4	1	5	6
246	1	3	4	1	1	2	--	1	1				1	2	3	2	5	7
248	1	--	1	2	2	4	--	1	1				2	3	5	3	3	6
250	1	1	2	1	1	2							1	1	2	2	2	4
252	1	--	1													1	--	1
254	3	1	4	1	--	1	--	1	1				1	1	2	4	2	6
256																		
258	1	--	1				--	1	1				--	1	1	1	1	2
260	--	2	2	--	1	1							--	1	1	--	3	3
262	1	2	3	1	--	1	--	1	1				1	1	2	2	3	5
264	--	3	3													--	3	3
266	1	--	1													1	--	1
268																		
270	--	1	1													--	1	1
272																		
274																		
276	--	1	1													--	1	1
Totals	24	16	40	16	17	33	10	8	18	2	--	2	28	25	53	52	41	93

TABLE 61

LENGTH COMPOSITION OF THE 1935 YEAR-CLASS, AGE 8, IN 1943-44

Length mm.	Pacific Northwest			San Francisco			Monterey			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
224	1	--	1	1	--	1	--	1	1	1	1	2	2	1	3
226															
228	--			--	1	1				--	1	1	--	1	1
230				1	--	1				1	--	1	1	--	1
232															
234															
236	1	--	1										1	--	1
238	1	--	1	--									1	--	1
240															
242	--	1	1										--	1	1
244							1	--	1	1	--	1	1	--	1
246															
248															
250	1	--	1										1	--	1
252				--	1	1				--	1	1	--	1	1
254	2	1	3										2	1	3
256															
258															
260															
262															
264	1	--	1										1	--	1
266															
268	1	--	1	--	1	1				--	1	1	1	1	2
270															
272	--	1	1										--	1	1
274															
276															
278	--	1	1										--	1	1
280															
Totals	8	4	12	2	3	5	1	1	2	3	4	7	11	8	19

TABLE 62

LENGTH COMPOSITION OF THE 1934, 1933, AND 1932 YEAR-CLASSES IN 1943-44

Length mm.	1934 Year-class, age 9									1933 Year-class, age 10			1932 Year-class, age 11		
	Pacific Northwest			California[1]			Grand Total			Grand Total[2]			Grand Total[2]		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
234	1		1				1	--	1						
236															
238															
240															
242															
244				--	1	1	--	1	1						
246															
248															
250	1		1				1	--	1						
252				1	--	1	1	--	1						
254															
256	--	1	1				--	1	1						
258															
260															
262										1	--	1			
264															
266															
268															
270	1	--	1				1	--	1				1	--	1
Totals	3	1	4	1	1	2	4	2	6	1	--	1	1	--	1

[1] Year-class represented in California only at Monterey.
[2] Year-class represented in Pacific Northwest only.

TABLE 63

LENGTH COMPOSITION OF THE 1943 YEAR-CLASS, AGE 1, IN 1944-45

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
140							---	2	2				---	2	2	---	2	2
142							---	1	1				---	1	1	---	1	1
144							---	1	1				---	1	1	---	1	1
146							1	1	2				1	1	2	1	1	2
148							---	1	1				---	1	1	---	1	1
150							5	2	7				5	2	7	5	2	7
152	---	1	1				4	8	12				4	8	12	4	9	13
154							5	8	13				5	8	13	5	8	13
156							6	7	13				6	7	13	6	7	13
158							12	15	27				12	15	27	12	15	27
160				1	---	1	8	9	17				9	9	18	9	9	18
162							15	15	30	3	1	4	18	16	34	18	16	34
164							8	16	24	3	5	8	11	21	32	11	21	32
166							13	16	29	---	5	5	13	21	34	13	21	34
168	---	1	1	2	1	3	19	21	40	6	5	11	27	27	54	27	28	55
170	---	4	4				15	12	27	4	5	9	19	17	36	19	21	40
172	---	1	1	1	3	4	11	15	26	6	4	10	18	22	40	18	23	41
174				1	1	2	14	20	34	3	3	6	18	24	42	18	24	42
176				2	3	5	11	12	23	7	10	17	20	25	45	20	25	45
178				2	1	3	15	8	23	10	9	19	27	18	45	27	18	45
180							8	8	16	14	16	30	22	24	46	22	24	46
182				1	2	3	10	12	22	16	15	31	27	29	56	27	29	56
184	1	---	1	1	4	5	8	7	15	11	19	30	20	30	50	21	30	51
186				3	3	6	5	6	11	34	24	58	42	33	75	42	33	75
188	1	---	1	---	1	1	5	4	9	30	26	56	35	31	66	36	31	67
190	1	---	1	3	1	4	2	3	5	25	25	50	30	29	59	31	29	60
192	---	1	1	2	1	3	4	1	5	26	20	46	32	22	54	32	23	55
194				---	4	4	3	2	5	19	17	36	22	23	45	22	23	45
196				1	---	1	1	2	3	26	21	47	28	23	51	28	23	51
198							1	1	2	11	15	26	12	16	28	12	16	28
200	1	---	1							12	13	25	12	13	25	13	13	26
202				---	1	1	1	---	1	2	8	10	3	9	12	3	9	12
204							---	1	1	1	2	3	1	3	4	1	3	4
206	1	---	1							---	3	3	---	3	3	1	3	4
208							---	1	1	---	2	2	---	3	3	---	3	3
210										1	2	3	1	2	3	1	2	3
212										1	---	1	1	---	1	1	---	1
214																		
216																		
218																		
220							---	1	1				---	1	1	---	1	1
222																		
224																		
226																		
228																		
230																		
232	---	1	1													---	1	1
Totals	5	9	14	20	26	46	210	239	450[1]	271	275	546	501	540	1042[1]	506	549	1056[1]

[1] Includes one fish, length and sex unknown.

TABLE 64

LENGTH COMPOSITION OF THE 1942 YEAR-CLASS, AGE 2, IN 1944-45

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
146							1	---	1				1	---	1	1	---	1
148																		
150																		
152																		
154																		
156																		
158																		
160							1	2	3				1	2	3	1	2	3
162							---	1	1				---	1	1	---	1	1
164							2	1	3				2	1	3	2	1	3
166	1	---	1				---	1	1				---	1	1	1	1	2
168							5	1	6				5	1	6	5	1	6
170	---	1	1	1	---	1	1	3	4				2	3	5	2	4	6
172	2	1	3				2	3	5				2	3	5	4	4	8
174							4	4	8	2	---	2	6	4	10	6	4	10
176							3	2	5	---	1	1	3	3	6	3	3	6
178	---	2	2	---	1	1	6	7	13	5	1	6	11	9	20	11	11	22
180	---	1	1	---	1	1	7	3	10	1	1	2	8	5	13	8	6	14
182	1	1	2	1	---	1	6	4	10	1	3	4	8	7	15	9	8	17
184				1	1	2	5	5	10	5	3	8	11	9	20	11	9	20
186	1	---	1	1	3	4	10	12	22	6	8	14	17	23	40	18	23	41
188	---	1	1	1	2	3	20	16	36	7	7	14	28	25	53	28	26	54
190							15	13	28	12	9	21	27	22	49	27	22	49
192				1	2	3	26	13	39	18	13	31	45	28	73	45	28	73
194	2	1	3	1	1	2	38	14	52	29	22	51	68	37	105	70	38	108
196	---	3	3	4	3	7	51	28	79	33	23	56	88	54	142	88	57	145
198	2	1	3	3	---	3	48	40	88	49	34	83	100	74	174	102	75	177
200	1	---	1	2	6	8	46	56	102	50	47	97	98	109	207	99	109	208
202	2	1	3	6	6	12	46	36	82	56	57	113	108	99	207	110	100	210
204	1	1	2	14	12	26	61	44	105	55	38	93	130	94	224	131	95	226
206	1	2	3	3	9	12	42	55	98	49	55	104	94	119	214	95	121	217
208				18	10	28	48	59	108	43	41	84	109	110	220	109	110	220
210	2	---	2	14	9	23	45	47	92	26	50	76	85	106	191	87	106	193
212	---	2	2	10	21	31	42	40	82	31	29	60	83	90	173	83	92	175
214	---	1	1	10	14	24	27	36	63	18	31	49	55	81	136	55	82	137
216	1	---	1	12	11	23	22	35	57	14	21	35	48	67	115	49	67	116
218				6	21	27	18	30	48	9	13	22	33	64	97	33	64	97
220	1	---	1	4	11	15	15	26	41	3	11	14	22	48	70	23	48	71
222				5	7	12	11	11	22	1	5	6	17	23	40	17	23	40
224				5	9	14	4	6	10	---	5	5	9	20	29	9	20	29
226				4	3	7	5	10	15	---	2	2	9	15	24	9	15	24
228				4	3	7	8	4	12	---	5	5	12	12	24	12	12	24
230				4	3	7	---	6	6	1	---	1	5	9	14	5	9	14
232				2	---	2	2	3	5	---	1	1	4	4	8	4	4	8
234							---	3	3				---	3	3	---	3	3
236				2	---	2							2	---	2	2	---	2
238				1	---	1	---	2	2				1	2	3	1	2	3
240				---	2	2							---	2	2	---	2	2
242																		
244				---	1	1	---	1	1				---	2	2	---	2	2
246																		
248																		
250				---	1	1							---	1	1	---	1	1
252																		
254							---	1	1				---	1	1	---	1	1
Totals	18	19	37	140	173	313	693	684	1379[1]	524	536	1060	1357	1393	2752[1]	1375	1412	2789[1]

[1] Includes two fish, sex unknown.

TABLE 65

LENGTH COMPOSITION OF THE 1941 YEAR-CLASS, AGE 3, IN 1944-45

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
172										---	1	1	---	1	1	---	1	1
174																		
176																		
178																		
180							1	---	1				1	---	1	1	---	1
182										1	---	1	1	---	1	1	---	1
184							1	---	1				1	---	1	1	---	1
186										2	---	2	2	---	2	2	---	2
188							2	---	2	1	---	1	3	---	3	3	---	3
190							2	2	4	7	1	8	9	3	12	9	3	12
192							---	1	1	22	---	22	22	1	23	22	1	23
194							1	---	1	28	5	33	29	5	34	29	5	34
196				---	1	1				46	14	60	46	15	61	46	15	61
198				1	---	1	4	2	6	41	27	68	46	29	75	46	29	75
200				---	1	1	6	4	10	62	43	105	68	48	116	68	48	116
202	---	1	1	1	2	3	6	5	11	74	51	125	81	58	139	81	59	140
204				3	3	6	7	4	11	60	50	110	70	57	127	70	57	127
206				2	---	2	5	3	8	62	55	117	69	58	127	69	58	127
208				3	1	4	9	9	19	57	48	105	69	58	128	69	58	128
210				4	1	5	5	8	13	41	57	98	50	66	116	50	66	116
212				6	6	12	9	7	16	27	48	75	42	61	103	42	61	103
214	---	1	1	4	6	10	8	10	18	22	21	43	34	37	71	34	38	72
216				4	7	11	14	16	30	15	28	43	33	51	84	33	51	84
218				5	7	12	13	13	26	13	25	38	31	45	76	31	45	76
220				3	5	8	9	8	17	12	16	28	24	29	53	24	29	53
222				8	6	14	9	8	17	5	11	16	22	25	47	22	25	47
224	1	---	1	6	8	14	15	11	26	2	8	10	23	27	50	24	27	51
226	2	---	2	12	6	18	7	8	15	3	8	11	22	22	44	24	22	46
228	1	1	2	7	2	9	11	14	25	3	4	7	21	20	41	22	21	43
230	1	---	1	5	4	9	10	6	16	1	4	5	16	14	30	17	14	31
232	3	---	3	5	6	11	7	7	14	1	2	3	13	15	28	16	15	31
234	1	1	2	4	6	10	4	6	10	---	2	2	8	14	22	9	15	24
236	1	1	2	2	4	6	---	6	6	1	---	1	3	10	13	4	11	15
238	1	1	2	3	3	6	3	7	10				6	10	16	7	11	18
240				---	2	2	2	2	4				2	4	6	2	4	6
242	---	2	2	1	4	5	---	3	3	---	1	1	1	8	9	1	10	11
244				1	1	2	1	2	3				2	3	5	2	3	5
246							1	2	3				1	2	3	1	2	3
248				---	1	1	---	3	3				---	4	4	---	4	4
250	---	1	1				---	1	1	---	1	1	---	2	2	---	3	3
252				1	---	1							1	---	1	1	---	1
254				---	1	1							---	1	1	---	1	1
256							---	1	1				---	1	1	---	1	1
Totals	11	9	20	91	94	185	172	179	352[1]	609	531	1141[2]	872	804	1678[1,2]	883	813	1698[1,2]

[1] Includes one fish, sex unknown.
[2] Includes one fish, length and sex unknown.

TABLE 66

LENGTH COMPOSITION OF THE 1940 YEAR-CLASS, AGE 4, IN 1944-45

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
190							1	---	1	1	1	2	2	1	3	2	1	3
192																		
194							---	1	1	1	1	2	1	2	3	1	2	3
196										6	2	8	6	2	8	6	2	8
198				1	---	1	1	---	1	9	4	13	11	4	15	11	4	15
200				1	---	1				21	6	27	22	6	28	22	6	28
202										21	5	26	21	5	26	21	5	26
204				1	---	1	---	1	1	21	10	31	22	11	33	22	11	33
206				1	1	2	4	---	4	21	16	37	26	17	43	26	17	43
208							3	1	4	18	15	33	21	16	37	21	16	37
210				3	1	4				13	20	33	16	21	37	16	21	37
212				3	3	6	5	2	7	15	20	35	23	25	48	23	25	48
214				1	---	1	8	2	10	12	13	25	21	15	36	21	15	36
216				6	3	9	6	5	11	13	9	22	25	17	42	25	17	42
218				1	5	6	1	1	2	7	11	18	9	17	26	9	17	26
220	1	---	1	1	2	3	4	5	9	7	9	16	12	16	28	13	16	29
222	2	---	2	2	5	7	6	4	10	5	4	9	13	13	26	15	13	28
224	1	---	1	11	3	14	6	5	11	6	4	10	23	12	35	24	12	36
226	---	1	1	19	8	27	13	6	19	2	6	8	34	20	54	34	21	55
228	3	2	5	23	13	36	16	12	28	2	5	7	41	30	71	44	32	76
230	1	3	4	22	18	40	22	11	33	2	4	6	46	33	79	47	36	83
232	6	5	11	27	17	44	18	19	37	8	3	11	53	39	92	59	44	103
234	7	4	11	35	22	57	28	15	43	4	2	6	67	39	106	74	43	117
236	6	7	13	32	24	56	19	17	37	2	6	8	53	47	101	59	54	114
238	3	6	9	33	30	63	18	28	46	---	4	4	51	62	113	54	68	122
240	8	4	12	41	38	79	18	21	39	2	1	3	61	60	121	69	64	133
242	3	5	8	20	40	60	9	19	28	1	4	5	30	63	93	33	68	101
244	3	9	12	16	37	53	8	17	25	2	2	4	26	56	82	29	65	94
246	4	3	7	8	26	34	4	13	17	---	2	2	12	41	53	16	44	60
248	2	4	6	3	19	22	4	9	13	---	2	2	7	30	37	9	34	43
250	1	5	6	6	12	18	4	10	14	---	1	1	10	23	33	11	28	39
252	1	2	3	2	11	13	5	5	10				7	16	23	8	18	26
254	---	1	1	2	3	5	---	2	2				2	5	7	2	6	8
256	1	1	2				---	5	5	1	---	1	1	5	6	2	6	8
258				---	1	1	---	1	1					2	2	---	2	2
260				---	1	1	---	1	1					2	2	---	2	2
262				1	---	1							1	---	1	1	---	1
264																		
266	---	2	2													---	2	2
Totals	53	64	117	322	343	665	231	238	470[1]	223	192	415	776	773	1550[1]	829	837	1667[1]

[1] Includes one fish, sex unknown.

TABLE 67

LENGTH COMPOSITION OF THE 1939 YEAR-CLASS, AGE 5, IN 1944-45

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
190										1	--	1	1	--	1	1	--	1
192																		
194										2	--	2	2	--	2	2	--	2
196																		
198										3	--	3	3	--	3	3	--	3
200				1	--	1				1	--	1	2	--	2	2	--	2
202										5	2	7	5	2	7	5	2	7
204				1	--	1				7	1	8	8	1	9	8	1	9
206							2	--	2	4	2	6	6	2	8	6	2	8
208										3	8	11	3	8	11	3	8	11
210							2	--	2	1	--	1	3	--	3	3	--	3
212				2	1	3				5	4	9	7	5	12	7	5	12
214							--	3	3	3	4	7	3	7	10	3	7	10
216							3	--	3	3	3	6	6	3	9	6	3	9
218				2	--	2				3	3	6	5	3	8	5	3	8
220				1	1	2	2	1	3	2	3	5	5	5	10	5	5	10
222				4	--	4	7	1	8	2	3	5	13	4	17	13	4	17
224	1	--	1	3	4	7	5	2	7	3	3	6	11	9	20	12	9	21
226	1	1	2	9	2	11	15	2	17	7	5	12	31	9	40	32	10	42
228	3	--	3	20	1	21	14	4	18	2	4	6	36	9	45	39	9	48
230	5	1	6	25	6	31	22	4	26	6	2	8	53	12	65	58	13	71
232	12	5	17	36	14	50	27	3	30	4	3	7	67	20	87	79	25	104
234	8	3	11	53	10	63	21	14	35	4	3	7	78	27	105	86	30	116
236	15	8	23	47	36	83	32	16	48	4	5	9	83	57	140	98	65	163
238	8	4	12	47	35	82	31	32	64	3	6	9	81	73	155	89	77	167
240	11	11	22	51	25	76	27	25	52	3	7	10	81	57	138	92	68	160
242	7	13	20	42	46	88	24	27	51	3	5	8	69	78	147	76	91	167
244	5	11	16	40	33	73	16	27	43	2	2	4	58	62	120	63	73	136
246	10	7	17	30	56	86	13	15	28	1	4	5	44	75	119	54	82	136
248	5	8	13	28	43	71	11	18	29	--	1	1	39	62	101	44	70	114
250	3	9	12	14	32	46	3	21	24	1	2	3	18	55	73	21	64	85
252	2	7	9	9	25	34	8	11	19	--	1	1	17	37	54	19	44	63
254	3	3	6	7	21	28	1	10	11	--	1	1	8	32	40	11	35	46
256	2	5	7	5	11	16	1	6	7	--	2	2	6	19	25	8	24	32
258	1	2	3	1	7	8	--	2	2				1	9	10	2	11	13
260				--	3	3	--	2	2				--	5	5	--	5	5
262	--	3	3	1	2	3	--	2	2				1	4	5	1	7	8
264	--	1	1	1	2	3							1	2	3	1	3	4
266																		
268																		
270																		
272																		
274																		
276																		
278							1	--	1				1	--	1	1	--	1
Totals	102	102	204	480	416	896	288	248	537[1]	88	89	178[2]	856	753	1611[1,2]	958	855	1815[1,2]

[1] Includes one fish, sex unknown.
[2] Includes one fish, length and sex unknown.

TABLE 68

LENGTH COMPOSITION OF THE 1938 YEAR-CLASS, AGE 6, IN 1944-45

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
196										1	--	1	1	--	1	1	--	1
198																		
200																		
202				1	--	1							1	--	1	1	--	1
204										--	1	1	--	1	1	--	1	1
206										1	--	1	1	--	1	1	--	1
208							1	--	1				1	--	1	1	--	1
210										--	1	1	--	1	1	--	1	1
212							1	--	1	1	--	1	2	--	2	2	--	2
214																		
216										--	1	1	--	1	1	--	1	1
218				1	--	1							1	--	1	1	--	1
220				1	--	1							1	--	1	1	--	1
222							2	--	2	2	--	2	4	--	4	4	--	4
224				2	--	2	1	--	1	1	1	2	4	1	5	4	1	5
226	--	1	1	--	1	1	2	--	2	2	--	2	4	1	5	4	2	6
228	1	--	1	3	1	4	1	--	1				4	1	5	5	1	6
230	2	1	3	12	2	14	5	--	5	--	1	1	17	3	20	19	4	23
232	3	2	5	14	2	16	6	--	6	--	1	1	20	3	23	23	5	28
234	3	--	3	20	4	24	6	4	10	3	--	3	29	8	37	32	8	40
236	4	2	6	13	7	20	7	4	11	1	1	2	21	12	33	25	14	39
238	5	1	6	22	8	30	10	8	18	--	1	1	32	17	49	37	18	55
240	3	2	5	24	14	38	5	5	10	2	2	4	31	21	52	34	23	57
242	6	4	10	20	14	34	6	9	15	--	2	2	26	25	51	32	29	61
244	3	4	7	25	12	37	18	5	23				43	17	60	46	21	67
246	5	3	8	16	21	37	5	5	10				21	26	47	26	29	55
248	6	3	9	10	21	31	8	8	16	1	--	1	19	29	48	25	32	57
250	2	2	4	11	18	29	2	6	8	1	2	3	14	26	40	16	28	44
252	1	6	7	8	22	30	--	3	3				8	25	33	9	31	40
254	--	2	2	5	10	15	--	9	9				5	19	24	5	21	26
256	1	2	3	4	6	10	1	2	3	--	1	1	5	9	14	6	11	17
258	2	4	6	1	11	12	--	1	1				1	12	13	3	16	19
260	--	1	1	2	5	7	--	2	2				2	7	9	2	8	10
262	1	1	2	1	2	3	--	1	1				1	3	4	2	4	6
264	1	1	2	1	2	3	--	2	2				1	4	5	2	5	7
266	--	1	1													--	1	1
268				--	2	2							--	2	2	--	2	2
270				--	1	1							--	1	1	--	1	1
272							--	1	1				--	1	1	--	1	1
274							--	1	1				--	1	1	--	1	1
276																		
278																		
280	--	1	1													--	1	1
Totals	49	44	93	217	186	403	87	76	163	16	15	31	320	277	597	369	321	690

TABLE 69

LENGTH COMPOSITION OF THE 1937 YEAR-CLASS, AGE 7, IN 1944-45

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
196				--	1	1							--	1	1	--	1	1
198																		
200																		
202																		
204																		
206																		
208																		
210																		
212																		
214																		
216																		
218																		
220																		
222																		
224				1	--	1							1	--	1	1	--	1
226																		
228	1	--	1	2	--	2	1	--	1	2	--	2	5	--	5	6	--	6
230	--	1	1	--	1	1	--	1	1				--	2	2	--	3	3
232	--	1	1	1	--	1	1	--	1				2	--	2	2	1	3
234	1	--	1				1	--	1				1	--	1	2	--	2
236	1	--	1	3	--	3	1	--	1	--	1	1	4	1	5	5	1	6
238	1	1	2	3	2	5	5	1	6	1	--	1	9	3	12	10	4	14
240				8	2	10	1	--	1	1	1	2	10	3	13	10	3	13
242	2	1	3	7	2	9	3	--	3	1	1	2	11	3	14	13	4	17
244	2	1	3	9	8	17	--	7	7				9	15	24	11	16	27
246	--	1	1	8	4	12	2	5	7	--	2	2	10	11	21	10	12	22
248	--	1	1	5	8	13	2	--	2				7	8	15	7	9	16
250	1	--	1	4	7	11	--	2	2				4	9	13	5	9	14
252	1	3	4	5	9	14	--	1	1				5	10	15	6	13	19
254	--	2	2	4	4	8	1	3	4				5	7	12	5	9	14
256	1	1	2	3	4	7	--	4	4				3	8	11	4	9	13
258				2	2	4	--	1	1				2	3	5	2	3	5
260	--	1	1	1	1	2	1	--	1				2	1	3	2	2	4
262				2	3	5							2	3	5	2	3	5
264				--	3	3							--	3	3	--	3	3
266	--	1	1	--	1	1							--	1	1	--	2	2
268	--	1	1													--	1	1
270																		
272																		
274				1	1	2							1	1	2	1	1	2
Totals	11	16	27	69	63	132	19	25	44	5	5	10	93	93	186	104	109	213

TABLE 70

LENGTH COMPOSITION OF THE 1936, 1935 AND 1933 YEAR-CLASSES IN 1944-45

L'th mm.	1936 Year-class, age 8																1935 Year-class, age 9			1933 Year-class, age 11		
	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total				Grand Total[1]			Grand Total[1]		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
228				1	--	1							1	--	1	1	--	1						
230							1	--	1				1	--	1	1	--	1						
232	2	--	2													2	--	2				1	--	1
234				1	--	1	2	--	2				3	--	3	3	--	3						
236								1	1					1	1		1	1						
238	1	--	1				1	--	1				1	--	1	2	--	2						
240				3	--	3							3	--	3	3	--	3						
242	1	--	1					1	1					1	1	1	1	2						
244	1	--	1	1	--	1	1	--	1		1	1	2	1	3	3	1	4						
246					1	1								1	1		1	1						
248																				1	1			
250				1	3	4							1	3	4	1	3	4						
252		1	1	1	4	5							1	4	5	1	5	6						
254	1	--	1	1	2	3							1	2	3	2	2	4						
256	1	--	1	1	2	3							1	2	3	2	2	4						
258	--	2	2	1	--	1							1	--	1	1	2	3	1	--	1			
260																			1	--	1			
262				1	--	1							1	--	1	1	--	1						
264				--	1	1	1	--	1				1	1	2	1	1	2						
266																								
268																								
270	--	2	2													--	2	2						
272				--	1	1							--	1	1	--	1	1						
Totals	7	5	12	12	14	26	6	2	8	--	1	1	18	17	35	25	22	47	2	1	3	1	--	1

[1] Year-class represented in Pacific Northwest only.

TABLE 71

LENGTH COMPOSITION OF THE 1944 YEAR-CLASS, AGE 1, IN 1945-46

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
152							--	1	1				--	1	1	--	1	1
154							1	2	3				1	2	3	1	2	3
156							--	1	1	1	--	1	1	1	2	1	1	2
158							1	3	4	1	1	2	2	4	6	2	4	6
160							1	--	1	1	2	3	2	2	4	2	2	4
162							1	2	3	1	--	1	2	2	4	2	2	4
164							2	--	2	--	3	3	2	3	5	2	3	5
166							5	--	5	4	--	4	9	--	9	9	--	9
168				1	--	1	1	3	4				2	3	5	2	3	5
170							3	4	7	3	2	5	6	6	12	6	6	12
172							1	4	5	2	3	5	3	7	10	3	7	10
174							7	1	8	--	1	1	7	2	9	7	2	9
176	--	1	1	1	--	1	5	1	6	3	2	5	9	3	12	9	4	13
178				--	2	2	3	2	5	3	4	7	6	8	14	6	8	14
180				--	1	1	1	5	6	5	1	6	6	7	13	6	7	13
182							1	2	3	6	8	14	7	10	17	7	10	17
184							--	3	3	3	2	5	3	5	8	3	5	8
186				--	1	1	1	1	2	3	5	8	4	7	11	4	7	11
188										3	3	6	3	3	6	3	3	6
190							1	1	2	6	2	8	7	3	10	7	3	10
192							1	--	1	3	2	5	4	2	6	4	2	6
194	2	--	2	1	--	1				2	3	5	3	3	6	5	3	8
196										1	1	2	1	1	2	1	1	2
198				1	--	1				3	1	4	4	1	5	4	1	5
200							1	--	1	--	4	4	1	4	5	1	4	5
202										--	1	1	--	1	1	--	1	1
204																		
206																		
208																		
210																		
212																		
214																		
216																		
218																		
220																		
222																		
224																		
226																		
228																		
230																		
232																		
234																		
236																		
238	1	--	1													1	--	1
240																		
Totals	3	1	4	4	4	8	37	36	73	54	51	105	95	91	186	98	92	190

TABLE 72

LENGTH COMPOSITION OF THE 1943 YEAR-CLASS, AGE 2, IN 1945-46

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
162																		
164				1	--	1							1	--	1	1	-	1
166																		
168																		
170																		
172																		
174																		
176										1	--	1	1	--	1	1	--	1
178							1	1	2				1	1	2	1	1	2
180				1	--	1							1	--	1	1	--	1
182							1	--	1				1	--	1	1	--	1
184	--	1	1							3	1	4	3	1	4	3	2	5
186				3	--	3	1	2	3	10	2	12	14	4	18	14	4	18
188	--	1	1	1	1	2	1	1	2	6	1	7	8	3	11	8	4	12
190				--	2	2	2	--	2	9	5	14	11	7	18	11	7	18
192				1	--	1	3	2	5	20	6	26	24	8	32	24	8	32
194	1	--	1	2	2	4	1	3	4	21	14	35	24	19	43	25	19	44
196				--	2	2	4	6	10	18	17	35	22	25	47	22	25	47
198	1	--	1	2	--	2	6	3	9	16	17	33	24	20	44	25	20	45
200				3	2	5	5	9	14	18	18	36	26	29	55	26	29	55
202				7	4	11	8	6	14	10	10	20	25	20	45	25	20	45
204	2	--	2	9	5	14	4	5	9	8	16	24	21	26	47	23	26	49
206				2	2	4	11	7	18	5	8	13	18	17	35	18	17	35
208	3	--	3	5	4	9	12	8	20	8	16	24	25	28	53	28	28	56
210	3	--	3	7	4	11	14	7	21	3	5	8	24	16	40	27	16	43
212	3	1	4	5	4	9	10	12	22	4	4	8	19	20	39	22	21	43
214	--	2	2	7	6	13	9	8	17	5	10	15	21	24	45	21	26	47
216	3	2	5	3	6	9	6	17	23	3	5	8	12	28	40	15	30	45
218	1	1	2	10	4	14	16	6	22	--	1	1	26	11	37	27	12	39
220				6	5	11	8	10	18	--	5	5	14	20	34	14	20	34
222	--	3	3	3	4	7	1	5	6	1	1	2	5	10	15	5	13	18
224				2	2	4	2	2	4	--	1	1	4	5	9	4	5	9
226	--	1	1	1	5	6	1	--	1	--	2	2	2	7	9	2	8	10
228							2	3	5	1	2	3	3	5	8	3	5	8
230							--	2	2				--	2	2	--	2	2
232							--	1	1				--	1	1	-	1	1
234																		
236																		
238				--	1	1							--	1	1	--	1	1
240																		
242																		
244																		
246																		
248				1	--	1							1	--	1	1	--	1
250																		
Totals	17	12	29	82	65	147	129	126	255	170	167	337	381	358	739	398	370	768

TABLE 73

LENGTH COMPOSITION OF THE 1942 YEAR-CLASS, AGE 3, IN 1945-46

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
180										1	--	1	1	--	1	1	--	1
182																		
184							--	1	1	--	1	1	--	2	2	--	2	2
186							--	1	1	1	1	2	1	2	3	1	2	3
188							1	1	2	1	2	3	2	3	5	2	3	5
190				--	1	1				4	2	6	4	3	7	4	3	7
192				--	1	1				12	2	14	12	3	15	12	3	15
194							1	1	2	4	7	11	5	8	13	5	8	13
196				1	--	1	1	--	1	11	6	17	13	6	19	13	6	19
198				--	1	1	1	2	3	7	6	13	8	9	17	8	9	17
200				--	1	1	2	2	4	5	3	8	7	6	13	7	6	13
202				1	--	1	5	4	9	13	8	21	19	12	31	19	12	31
204				3	1	4	3	2	5	12	11	23	18	14	32	18	14	32
206	1	1	2	2	--	2	8	3	11	14	7	21	24	10	34	25	11	36
208				3	--	3	7	7	14	8	9	17	18	16	34	18	16	34
210				6	2	8	14	4	18	12	5	17	32	11	43	32	11	43
212	1	--	1	4	4	8	5	6	11	4	6	10	13	16	29	14	16	30
214				5	9	14	12	5	17	2	6	8	19	20	39	19	20	39
216	2	3	5	5	8	13	16	8	24	--	3	3	21	19	40	23	22	45
218	--	1	1	4	6	10	14	15	29	3	4	7	21	25	46	21	26	47
220	2	--	2	4	14	18	13	20	33	2	9	11	19	43	62	21	43	64
222	5	--	5	7	6	13	15	14	29	1	7	8	23	27	50	28	27	55
224	1	4	5	6	16	22	11	12	23	3	2	5	20	30	50	21	34	55
226	1	5	6	7	6	13	7	16	23	1	3	4	15	25	40	16	30	46
228	--	3	3	6	3	9	2	8	10	1	3	4	9	14	23	9	17	26
230				6	9	15	8	7	15	--	2	2	14	18	32	14	18	32
232	2	1	3	3	8	11	3	6	9	--	1	1	6	15	21	8	16	24
234	2	1	3	3	6	9	3	9	12	1	2	3	7	17	24	9	18	27
236	1	1	2	2	3	5	--	2	2	1	--	1	3	5	8	4	6	10
238	--	1	1	2	1	3	3	5	8				5	6	11	5	7	12
240							1	--	1				1	--	1	1	--	1
242				--	1	1							--	1	1	--	1	1
244	1	--	1	--	1	1	--	3	3				--	4	4	1	4	5
246	--	1	1	1	1	2							1	1	2	1	2	3
248																		
250				--	1	1							--	1	1	--	1	1
252																		
254	--	1	1													--	1	1
256	--	1	1													--	1	1
258																		
260																		
262																		
264																		
266	--	1	1													--	1	1
268																		
270																		
Totals	19	25	44	81	110	191	156	164	320	124	118	242	361	392	753	380	417	797

TABLE 74

LENGTH COMPOSITION OF THE 1941 YEAR-CLASS, AGE 4, IN 1945-46

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
192																		
194																		
196																		
198										3	--	3	3	--	3	3	--	3
200							--	1	1	4	1	5	4	2	6	4	2	6
202							3	1	4	5	2	7	8	3	11	8	3	11
204				2	--	2	5	3	8	9	6	15	16	9	25	16	9	25
206				2	1	3	1	1	2	1	4	5	4	6	10	4	6	10
208				2	--	2	4	5	9	11	3	14	17	8	25	17	8	25
210				1	1	2	6	3	9	7	9	16	14	13	27	14	13	27
212				1	4	5	8	3	11	7	11	18	16	18	34	16	18	34
214				3	2	5	9	4	13	5	6	11	17	12	29	17	12	29
216				4	1	5	8	8	16	5	5	10	17	14	31	17	14	31
218				6	3	9	8	7	15	5	1	6	19	11	30	19	11	30
220				2	5	7	3	5	8	4	7	11	9	17	26	9	17	26
222				8	4	12	7	4	11	4	7	11	19	15	34	19	15	34
224				2	2	4	2	5	7	1	5	6	5	12	17	5	12	17
226				2	3	5	1	7	8	--	3	3	3	13	16	3	13	16
228				--	1	1	--	6	6	2	4	6	2	11	13	2	11	13
230				--	3	3	1	3	4	1	--	1	2	6	8	2	6	8
232				--	3	3	1	1	2	--	1	1	1	5	6	1	5	6
234	1	1	2	2	--	2	--	1	1				2	1	3	3	2	5
236				--	1	1	3	1	4				3	2	5	3	2	5
238	1	1	2	--	1	1	1	--	1				1	1	2	2	2	4
240				--	2	2	1	--	1	1	--	1	2	2	4	2	2	4
242				1	--	1	3	--	3	--	1	1	4	1	5	4	1	5
244				--	2	2	--	1	1				--	3	3	--	3	3
246				1	--	1	1	1	2				2	1	3	2	1	3
248	--	1	1	1	--	1							1	--	1	1	1	2
250	--	1	1	--	1	1	--	2	2				--	3	3	--	4	4
252																		
254							--	1	1				--	1	1	--	1	1
256	--	2	2													--	2	2
258																		
260																		
Totals	2	6	8	40	40	80	76	74	150	75	76	151	191	190	381	193	196	389

TABLE 75

LENGTH COMPOSITION OF THE 1940 YEAR-CLASS, AGE 5, IN 1945-46

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
192																		
194																		
196																		
198										1	--	1	1	--	1	1	--	1
200										--	1	1	--	1	1	--	1	1
202							1	--	1	1	--	1	2	--	2	2	--	2
204										2	1	3	2	1	3	2	1	3
206							1	--	1	--	1	1	1	1	2	1	1	2
208				1	--	1	2	--	2	4	3	7	7	3	10	7	3	10
210										1	--	1	1	--	1	1	--	1
212				1	--	1	--	1	1	3	3	6	4	4	8	4	4	8
214							3	1	4	--	1	1	3	2	5	3	2	5
216				--	3	3	--	1	1	3	1	4	3	5	8	3	5	8
218				--	1	1	3	1	4	--	1	1	3	3	6	3	3	6
220				2	1	3	--	1	1	1	2	3	3	4	7	3	4	7
222										--	2	2	--	2	2	--	2	2
224				3	1	4							3	1	4	3	1	4
226	1	--	1	2	--	2	1	1	2	1	1	2	4	2	6	5	2	7
228	1	--	1	3	1	4	2	1	3	--	2	2	5	4	9	6	4	10
230	1	--	1	1	3	4	--	2	2	1	1	2	2	6	8	3	6	9
232	1	--	1				2	1	3				2	1	3	3	1	4
234	3	2	5	2	1	3	2	2	4				4	3	7	7	5	12
236	3	--	3	2	1	3	3	1	4	1	--	1	6	2	8	9	2	11
238	3	--	3	2	1	3	--	3	3	1	--	1	3	4	7	6	4	10
240	2	4	6	2	1	3	1	1	2	--	1	1	3	3	6	5	7	12
242	4	2	6	2	2	4	1	3	4				3	5	8	7	7	14
244	4	1	5	4	3	7	3	1	4				7	4	11	11	5	16
246	8	6	14	2	3	5	4	2	6				6	5	11	14	11	25
248	2	1	3	1	3	4	2	1	3				3	4	7	5	5	10
250	4	5	9	1	4	5	2	2	4	--	1	1	3	7	10	7	12	19
252	1	4	5	1	2	3	--	5	5				1	7	8	2	11	13
254	7	--	7	1	2	3	--	4	4				1	6	7	8	6	14
256	1	6	7	1	3	4	--	3	3	--	1	1	1	7	8	2	13	15
258	2	2	4	--	3	3							--	3	3	2	5	7
260	1	1	2	1	2	3							1	2	3	2	3	5
262																		
264				--	1	1							--	1	1	--	1	1
266				1	--	1							1	--	1	1	--	1
268										--	1	1	--	1	1	--	1	1
270	1	--	1													1	--	1
272	--	1	1													--	1	1
274	--	1	1													--	1	1
276																		
278																		
280																		
Totals	50	36	86	36	42	78	33	38	71	20	24	44	89	104	193	139	140	279

TABLE 76

LENGTH COMPOSITION OF THE 1939 YEAR-CLASS, AGE 6, IN 1945-46

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
192																		
194																		
196																		
198																		
200										1	--	1	1	--	1	1	--	1
202										--	1	1	--	1	1	--	1	1
204																		
206																		
208										1	--	1	1	--	1	1	--	1
210																		
212				--	1	1				2	--	2	2	1	3	2	1	3
214							1	--	1	--	1	1	1	1	2	1	1	2
216					1	1	1	1	2	1	1	2	2	3	5	2	3	5
218				1	--	1							1	--	1	1	--	1
220				1	--	1							1	--	1	1	--	1
222										1	--	1	1	--	1	1	--	1
224							--	1	1				--	1	1	--	1	1
226																		
228				--	2	2							--	2	2	--	2	2
230																		
232																		
234	3	1	4				1	--	1				1	--	1	4	1	5
236	7	2	9				--	1	1				--	1	1	7	3	10
238	2	3	5	2	1	3	1	1	2	--	1	1	3	3	6	5	6	11
240	8	--	8	2	3	5	1	--	1				3	3	6	11	3	14
242	5	5	10	3	4	7	2	1	3				5	5	10	10	10	20
244	4	3	7	1	2	3	3	--	3	--	1	1	4	3	7	8	6	14
246	3	4	7	1	3	4	3	4	7				4	7	11	7	11	18
248	4	6	10	1	1	2	3	5	8	1	1	2	5	7	12	9	13	22
250	6	4	10	3	1	4	3	4	7				6	5	11	12	9	21
252	3	4	7	1	3	4	1	6	7				2	9	11	5	13	18
254	8	8	16	2	2	4	1	5	6	1	--	1	4	7	11	12	15	27
256	4	6	10	1	1	2	--	1	1				1	2	3	5	8	13
258	2	4	6	1	3	4	--	3	3				1	6	7	3	10	13
260	2	--	2	--	2	2	--	2	2					4	4	2	4	6
262	5	1	6				--	1	1				--	1	1	5	2	7
264	1	--	1	--	1	1							--	1	1	1	1	2
266	2	1	3													2	1	3
268	--	1	1	--	1	1	--	1	1				--	2	2	--	3	3
270				--	2	2							--	2	2	--	2	2
272																		
274																		
276																		
278				--	1	1							--	1	1	--	1	1
280																		
Totals	69	53	122	20	35	55	21	37	58	8	6	14	49	78	127	118	131	249

TABLE 77

LENGTH COMPOSITION OF THE 1938 YEAR-CLASS, AGE 7, IN 1945-46

Length mm.	Pacific Northwest			San Francisco			Monterey			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
232							1	--	1				1	--	1	1	--	1
234	1	1	2				--	1	1				--	1	1	1	2	3
236	2	--	2													2	--	2
238	1	1	2				1	--	1				1	--	1	2	1	3
240	3	--	3													3	--	3
242	1	2	3	1	1	2	--	1	1				1	2	3	2	4	6
244	1	1	2	2	1	3	1	--	1				3	1	4	4	2	6
246	5	1	6	1	1	2	1	1	2				2	2	4	7	3	10
248	2	2	4	1	2	3	1	--	1	--	1	1	2	3	5	4	5	9
250	1	4	5	--	1	1	2	--	2				2	1	3	3	5	8
252	1	--	1	1	6	7	1	2	3				2	8	10	3	8	11
254	4	--	4	1	--	1							1	--	1	5	--	5
256	5	1	6	--	2	2	--	1	1				--	3	3	5	4	9
258	2	6	8	--	2	2	--	1	1				--	3	3	2	9	11
260	--	1	1													--	1	1
262	--	1	1	--	2	2							--	2	2	--	3	3
264				--	1	1							--	1	1	--	1	1
266	--	3	3	--	1	1							--	1	1	--	4	4
268																		
270																		
272				--	1	1							--	1	1	--	1	1
274																		
276																		
278																		
280																		
Totals	29	24	53	7	21	28	8	7	15	--	1	1	15	29	44	44	53	97

TABLE 78

LENGTH COMPOSITION OF THE 1937 AND 1936 YEAR-CLASSES IN 1945-46

Length mm.	1937 Year-class, age 8																1936 Year-class, age 9								
	Pacific Northwest			San Francisco			Monterey			San Prdeo			California			Grand Total			Pacific Northwest			California[1]			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
232							1	--	1				1	--	1	1	--	1	--	1	1				--	1	1
234																											
236																											
238																						1	--	1	1	--	1
240				--	1	1							--	1	1	--	1	1									
242				1	--	1	--	1	1				1	1	2	1	1	2									
244	1	--	1													1	--	1									
246	--	1	1	--	1	1	--	1	1				--	2	2	--	3	3									
248																											
250	3	2	5				1	1	2				1	1	2	4	3	7	1	--	1				1	--	1
252	2	--	2	--	1	1							--	1	1	2	1	3									
254										--	1	1	--	1	1	--	1	1									
256	--	1	1													--	1	1									
258	1	--	1				--	1	1				--	1	1	1	1	2									
260																											
262	1	1	2													1	1	2									
264																											
266	--	1	1		1	1							--	1	1	--	2	2									
268																											
270	--	1	1													--	1	1									
272																											
274																											
276																			1	--	1				1	--	1
Totals	8	7	15	1	4	5	2	4	6	--	1	1	3	9	12	11	16	27	2	1	3	1	--	1	3	1	4

[1] Year-class represented in California only at San Francisco.

TABLE 79

LENGTH COMPOSITION OF THE 1946 YEAR-CLASS, AGE 0, IN 1946-47

Length mm.	Monterey[1]			Monterey[2]			San Pedro			California			Grand Total[3]		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
102															
104															
106	--	1	1	--	1	1				--	1	1	--	1	1
108	1	3	4	1	3	4				1	3	4	1	3	4
110	1	2	3	1	2	3				1	2	3	1	2	3
112	6	6	12	6	6	12				6	6	12	6	6	12
114	2	2	4	2	2	4				2	2	4	2	2	4
116	4	2	6	4	2	6				4	2	6	4	2	6
118	3	3	6	3	3	6				3	3	6	3	3	6
120	2	3	5	2	3	5				2	3	5	2	3	5
122	--	1	1	--	1	1				--	1	1	--	1	1
124															
126	--	1	1	--	1	1				--	1	1	--	1	1
128	--	1	1	--	1	1				--	1	1	--	1	1
130															
132															
134															
136	--	1	1	--	1	1				--	1	1	--	1	1
138															
140															
142															
144															
146															
148															
150															
152							1	--	1	1		1	1	--	1
Totals	19	26	45	19	26	45	1	--	1	20	26	46	20	26	46

[1] Includes samples of fish caught locally; excludes six samples from boats which fished in Southern California waters and made deliveries in Monterey.

[2] Combined total of samples of local and Southern California fish taken in Monterey.

[3] Year-class not represented in Pacific Northwest or at San Francisco.

TABLE 80

LENGTH COMPOSITION OF THE 1945 YEAR-CLASS, AGE 1, IN 1946-47

Length mm.	San Francisco			Monterey[1]			Monterey[2]			Monterey[3]			San Pedro			California			Grand Total[4]		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
148				1	--	1				1	--	1				1	--	1	1	--	1
150																					
152																					
154				1	--	1				1	--	1				1	--	1	1	--	1
156																					
158																					
160	1	3	4	1	--	1				1	--	1				2	3	5	2	3	5
162	2	2	4	2	2	4				2	2	4				4	4	8	4	4	8
164				1	3	4				1	3	4				1	3	4	1	3	4
166				4	4	8				4	4	8				4	4	8	4	4	8
168	1	1	2	5	4	9				5	4	9	2	--	2	8	5	13	8	5	13
170	1	--	1	2	8	10				2	8	10				3	8	11	3	8	11
172	2	--	2	7	5	12				7	5	12				9	5	14	9	5	14
174	1	--	1	8	12	20	1	--	1	9	12	21	--	1	1	10	13	23	10	13	23
176	1	2	3	9	7	16				9	7	16	2	4	6	12	13	25	12	13	25
178				8	15	23				8	15	23	2	2	4	10	17	27	10	17	27
180				14	14	28				14	14	28	4	2	6	18	16	34	18	16	34
182				12	6	18				12	6	18	6	4	10	18	10	28	18	10	28
184				7	12	19	2	--	2	9	12	21	7	3	10	16	15	31	16	15	31
186				10	12	22	1	--	1	11	12	23	7	4	11	18	16	34	18	16	34
188				12	6	18	3	1	4	15	7	22	12	8	20	27	15	42	27	15	42
190				7	17	24	2	--	2	9	17	26	21	23	44	30	40	70	30	40	70
192	1	--	1	8	14	22	2	3	5	10	17	27	22	16	38	33	33	66	33	33	66
194				8	4	12	2	3	5	10	7	17	22	16	38	32	23	55	32	23	55
196				8	4	12	4	5	9	12	9	21	17	20	37	29	29	58	29	29	58
198				4	9	13	--	2	2	4	11	15	28	22	50	32	33	65	32	33	65
200				4	7	11	1	3	4	5	10	15	11	27	38	16	37	53	16	37	53
202				4	1	5	--	2	2	4	3	7	12	13	25	16	16	32	16	16	32
204				1	4	5	--	2	2	1	6	7	4	13	17	5	19	24	5	19	24
206				1	2	3				1	2	3	5	6	11	6	8	14	6	8	14
208													3	9	12	3	9	12	3	9	12
210				--	2	2				--	2	2	4	8	12	4	10	14	4	10	14
212													--	2	2	--	2	2	--	2	2
214													--	2	2	--	2	2	--	2	2
216																					
218				1	--	1				1	--	1	1	--	1	2	--	2	2	--	2
Totals	10	8	18	150	174	324	18	21	39	168	195	363	192	205	397	370	408	778	370	408	778

[1] Includes samples of fish caught locally; excludes six samples from boats which fished in Southern California waters and made deliveries in Monterey.

[2] Samples of Southern California fish delivered in Monterey.

[3] Combined total of samples of local and Southern California fish taken in Monterey.

[4] Year-class not represented in Pacific Northwest.

TABLE 81

LENGTH COMPOSITION OF THE 1944 YEAR-CLASS, AGE 2, IN 1946-47

Length mm.	San Francisco			Monterey[1]			Monterey[2]			Monterey[3]			San Pedro			California			Grand Total[4]		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
166				1	--	1				1	--	1				1	--	1	1	--	1
168																					
170																					
172																					
174																					
176																					
178																					
180				1	--	1				1	--	1				1	--	1	1	--	1
182				--	1	1				--	1	1	2	--	2	2	1	3	2	1	3
184	1	--	1										--	1	1	1	1	2	1	1	2
186				--	2	2				--	2	2				--	2	2	--	2	2
188				1	1	2				1	1	2	1	1	2	2	2	4	2	2	4
190				2	2	4				2	2	4	7	4	11	9	6	15	9	6	15
192				1	2	3	--	1	1	1	3	4	8	4	12	9	7	16	9	7	16
194				1	1	2				1	1	2	8	12	20	9	13	22	9	13	22
196				2	2	4	1	1	2	3	3	6	10	6	16	13	9	22	13	9	22
198				1	1	2				1	1	2	15	7	22	16	8	24	16	8	24
200				2	1	3	2	--	2	4	1	5	12	8	20	16	9	25	16	9	25
202	2	--	2	2	2	4				2	2	4	15	8	23	19	10	29	19	10	29
204	1	--	1	3	1	4	2	1	3	5	2	7	4	16	20	10	18	28	10	18	28
206				5	3	8	1	--	1	6	3	9	11	11	22	17	14	31	17	14	31
208	--	1	1	4	4	8	--	1	1	4	5	9	10	15	25	14	21	35	14	21	35
210	1	--	1	3	1	4				3	1	4	8	12	20	12	13	25	12	13	25
212	--	2	2	1	--	1				1	--	1	6	7	13	7	9	16	7	9	16
214	1	1	2	2	4	6	--	1	1	2	5	7	5	10	15	8	16	24	8	16	24
216	1	1	2	1	2	3				1	2	3	1	6	7	3	9	12	3	9	12
218	1	--	1	1	2	3				1	2	3	1	8	9	3	10	13	3	10	13
220	1	--	1	--	1	1				--	1	1	3	5	8	4	6	10	4	6	10
222				1	2	3				1	2	3	--	2	2	1	4	5	1	4	5
224				2	2	4				2	2	4	2	4	6	4	6	10	4	6	10
226				1	1	2				1	1	2	--	1	1	1	2	3	1	2	3
228				1	1	2				1	1	2	1	3	4	2	4	6	2	4	6
230				--	2	2				--	2	2				--	2	2	--	2	2
232				1	--	1				1	--	1				1	--	1	1	--	1
234																					
236				--	1	1				--	1	1	1	--	1	1	1	2	1	1	2
238																					
240																					
242				--	1	1				--	1	1	--	1	1	--	2	2	--	2	2
Totals	9	5	14	40	43	83	6	5	11	46	48	94	131	152	283	186	205	391	186	205	391

[1] Includes samples of fish caught locally; excludes six samples from boats which fished in Southern California waters and made deliveries in Monterey.

[2] Samples of Southern California fish delivered in Monterey.

[3] Combined total of samples of local and Southern California fish taken in Monterey.

[4] Year-class not represented in Pacific Northwest.

TABLE 82

LENGTH COMPOSITION OF THE 1943 YEAR-CLASS, AGE 3, IN 1946-47

L'th mm.	Pacific Northwest			San Francisco			Monterey[1]			Monterey[2]			Monterey[3]			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
188																1	--	1	1	--	1	1	--	1
190																								
192																2	3	5	2	3	5	2	3	5
194																2	--	2	2	--	2	2	--	2
196																3	3	6	3	3	6	3	3	6
198																5	8	13	5	8	13	5	8	13
200										--	1	1	--	1	1	5	2	7	5	3	8	5	3	8
202										1	--	1	1	--	1	6	4	10	7	4	11	7	4	11
204										1	--	1	1	--	1	7	5	12	8	5	13	8	5	13
206																9	4	13	9	4	13	9	4	13
208																7	10	17	7	10	17	7	10	17
210																6	5	11	6	5	11	6	5	11
212																6	3	9	6	3	9	6	3	9
214							2	--	2				2	--	2	2	--	2	4	--	4	4	--	4
216							2	--	2	1	--	1	3	--	3	5	2	7	8	2	10	8	2	10
218							2	--	2				2	--	2	2	6	8	4	6	10	4	6	10
220							3	1	4	--	1	1	3	2	5	2	5	7	5	7	12	5	7	12
222	1	1	2				5	3	8				5	3	8	3	7	10	8	10	18	9	11	20
224				2	--	2	6	4	10				6	4	10	2	2	4	10	6	16	10	6	16
226							10	1	11				10	1	11	3	8	11	13	9	22	13	9	22
228				2	--	2	7	6	13				7	6	13	4	3	7	13	9	22	13	9	22
230	1	--	1				7	7	14				7	7	14	3	--	3	10	7	17	11	7	18
232	--	1	1	--	1	1	6	4	10				6	4	10	4	3	7	10	8	18	10	9	19
234				2	--	2	3	14	17				3	14	17	--	4	4	5	18	23	5	18	23
236	1	1	2	1	1	2	4	5	9				4	5	9	--	3	3	5	9	14	6	10	16
238	1	1	2	1	1	2	2	8	10				2	8	10	2	3	5	5	12	17	6	13	19
240				--	1	1	2	4	6				2	4	6	--	1	1	2	6	8	2	6	8
242							1	6	7				1	6	7	--	1	1	1	7	8	1	7	8
244							1	6	7				1	6	7				1	6	7	1	6	7
246																								
248				--	1	1	--	1	1				--	1	1				--	1	1	--	1	1
250	--	1	1				1	--	1				1	--	1				1	--	1	1	1	2
252	1	--	1				1	--	1				1	--	1				1	--	1	2	--	2
Totals	5	5	10	8	5	13	65	70	135	3	2	5	68	72	140	91	95	186	167	172	339	172	177	349

[1] Includes samples of fish caught locally; excludes six samples from boats which fished in Southern California waters and made deliveries in Monterey.

[2] Samples of Southern California fish delivered in Monterey.

[3] Combined total of samples of local and Southern California fish taken in Monterey.

TABLE 83

LENGTH COMPOSITION OF THE 1942 YEAR-CLASS, AGE 4, IN 1946-47

L'th mm.	Pacific Northwest			San Francisco			Monterey[1]			Monterey[2]			Monterey[3]			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
200																--	1	1	--	1	1	--	1	1
202																2	--	2	2	--	2	2	--	2
204							1	--	1				1	--	1	--	1	1	1	1	2	1	1	2
206																4	--	4	4	--	4	4	--	4
208							1	--	1				1	--	1	--	2	2	1	2	3	1	2	3
210							1	--	1	--	1	1	1	1	2	2	--	2	3	1	4	3	1	4
212							--	1	1				--	1	1	3	--	3	3	1	4	3	1	4
214																5	2	7	5	2	7	5	2	7
216																2	1	3	2	1	3	2	1	3
218							1	--	1				1	--	1	4	2	6	5	2	7	5	2	7
220							1	--	1				1	--	1	2	2	4	3	2	5	3	2	5
222							3	--	3				3	--	3	1	1	2	4	1	5	4	1	5
224				1	--	1	--	2	2				--	2	2	1	--	1	2	2	4	2	2	4
226							2	1	3	--	1	1	2	2	4	4	2	6	6	4	10	6	4	10
228	1	--	1				5	1	6				5	1	6	1	1	2	6	2	8	7	2	9
230				2	--	2	8	2	10	--	1	1	8	3	11	1	--	1	11	3	14	11	3	14
232				1	--	1	1	5	6	--	1	1	1	6	7	1	1	2	3	7	10	3	7	10
234				1	--	1	3	2	5				3	2	5	1	1	2	5	3	8	5	3	8
236	1	1	2	1	2	3	4	3	7				4	3	7	1	4	5	6	9	15	7	10	17
238	--	1	1	3	--	3	5	2	7				5	2	7	--	1	1	8	3	11	8	4	12
240	2	1	3	1	--	1	1	1	2				1	1	2	--	2	2	2	3	5	4	4	8
242	1	2	3	1	--	1	1	4	5				1	4	5				2	4	6	3	6	9
244	1	4	5	1	2	3	5	1	6				5	1	6	--			6	3	9	7	7	14
246	--	1	1	--	1	1	2	--	2				2	--	2				2	1	3	2	2	4
248	1	1	2	--	1	1	1	3	4				1	3	4				1	4	5	2	5	7
250	--	1	1				--	2	2				--	2	2				--	2	2	--	3	3
252	1	1	2																			1	1	2
254																								
256							1	--	1				1	--	1				1	--	1	1	--	1
258	--	1	1																			--	1	1
Totals	8	14	22	12	6	18	47	30	77	--	4	4	47	34	81	35	24	59	94	64	158	102	78	180

[1] Includes samples of fish caught locally; excludes six samples from boats which fished in Southern California waters and made deliveries in Monterey.
[2] Samples of Southern California fish delivered in Monterey.
[3] Combined total of samples of local and Southern California fish taken in Monterey.

TABLE 84

LENGTH COMPOSITION OF THE 1941 YEAR-CLASS, AGE 5, IN 1946-47

L'th mm.	Pacific Northwest			San Francisco			Monterey[1]			Monterey[2]			Monterey[3]			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
202	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
204	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1	1	--	1	1	--	1
206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
208	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1	1	--	1	1	--	1
210	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	1	4	3	1	4	3	1	4
212	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	2	1	1	2	1	1	2
214	--	--	--	--	--	--	1	--	1	--	--	--	1	--	1	--	--	--	1	--	1	1	--	1
216	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
218	--	--	--	--	--	--	1	--	1	--	--	--	1	--	1	--	1	1	1	1	2	1	1	2
220	--	--	--	--	--	--	1	--	1	--	--	--	1	--	1	2	1	3	3	1	4	3	1	4
222	--	--	--	--	--	--	2	--	2	--	1	1	2	1	3	1	--	1	3	1	4	3	1	4
224	--	--	--	--	--	--	2	--	2	--	--	--	2	--	2	1	--	1	3	--	3	3	--	3
226	--	--	--	--	--	--	--	1	1	--	--	--	--	1	1	--	1	1	--	2	2	--	2	2
228	--	--	--	--	--	--	2	2	4	--	--	--	2	2	4	1	1	2	3	3	6	3	3	6
230	1	--	1	--	--	--	2	1	3	--	--	--	2	1	3	1	1	2	3	2	5	4	2	6
232	--	--	--	--	--	--	2	1	3	--	--	--	2	1	3	2	3	5	4	4	8	4	4	8
234	--	--	--	--	--	--	2	2	4	--	--	--	2	2	4	--	--	--	2	2	4	2	2	4
236	--	--	--	--	--	--	1	2	3	--	--	--	1	2	3	--	--	--	1	2	3	1	2	3
238	1	--	1	--	1	1	2	--	2	--	--	--	2	--	2	--	1	1	2	2	4	3	2	5
240	1	1	2	1	--	1	1	2	3	--	--	--	1	2	3	1	--	1	3	2	5	4	3	7
242	--	--	--	--	1	1	2	1	3	--	--	--	2	1	3	--	--	--	2	2	4	2	2	4
244	--	--	--	1	--	1	--	1	1	--	--	--	--	1	1	--	--	--	1	1	2	1	1	2
246	--	--	--	--	--	--	--	1	1	--	--	--	--	1	1	--	--	--	--	1	1	--	1	1
248	1	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1
250	1	1	2	--	--	--	1	--	1	--	--	--	1	--	1	--	--	--	1	--	1	2	1	3
252	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
254	--	2	2	--	--	--	--	1	1	--	--	--	--	1	1	--	--	--	--	1	1	--	3	3
256	1	--	1	--	--	--	--	3	3	--	--	--	--	3	3	--	--	--	--	3	3	1	3	4
258	3	3	6	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	3	4	7
260	--	1	1	--	--	--	--	2	2	--	--	--	--	2	2	--	--	--	--	2	2	--	3	3
262	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
264	1	--	1	--	--	--	--	1	1	--	--	--	--	1	1	--	--	--	--	1	1	1	1	2
266	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
268	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
270	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
272	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
274	1	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1
Totals	11	8	19	2	3	5	22	21	43	--	1	1	22	22	44	15	11	26	39	36	75	50	44	94

[1] Includes samples of fish caught locally; excludes six samples from boats which fished in Southern California waters and made deliveries in Monterey.

[2] Samples of Southern California fish delivered in Monterey.

[3] Combined total of samples of local and Southern California fish taken in Monterey.

TABLE 85

LENGTH COMPOSITION OF THE 1940 YEAR-CLASS, AGE 6, IN 1946-47

Length mm.	Pacific Northwest			San Francisco			Monterey[1]			Monterey[2]			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
222							1	--	1	1	--	1				1	--	1	1	--	1
224																					
226													1	--	1	1	--	1	1	--	1
228																					
230							3	--	3	3	--	3				3	--	3	3	--	3
232							1	--	1	1	--	1	--	1	1	1	1	2	1	1	2
234																					
236	1	--	1				1	1	2	1	1	2				1	1	2	2	1	3
238	2	--	2										1	--	1	1	--	1	3	--	3
240	--	2	2				2	--	2	2	--	2				2	--	2	2	2	4
242	3	1	4				1	1	2	1	1	2				1	1	2	4	2	6
244	5	2	7				2	2	4	2	2	4				2	2	4	7	4	11
246	4	1	5																4	1	5
248	5	--	5	1	--	1							--	1	1	1	1	2	6	1	7
250	2	4	6	--	1	1										--	1	1	2	5	7
252	5	5	10	1	2	3	1	1	2	1	1	2				2	3	5	7	8	15
254	3	5	8																3	5	8
256	3	3	6																3	3	6
258	4	2	6				1	1	2	1	1	2				1	1	2	5	3	8
260	--	8	8																--	8	8
262	1	4	5																1	4	5
264	--	1	1				--	1	1	--	1	1				--	1	1	--	2	2
266	--	2	2				--	1	1	--	1	1				--	1	1	--	3	3
268	--	1	1																--	1	1
270	--	2	2																--	2	2
272	--	1	1																--	1	1
274	--	1	1																--	1	1
Totals	38	45	83	2	3	5	13	8	21	13	8	21	2	2	4	17	13	30	55	58	113

[1] Includes samples of fish caught locally; excludes six samples from boats which fished in Southern California waters and made deliveries in Monterey.

[2] Combined total of samples of local and Southern California fish taken in Monterey.

TABLE 86

LENGTH COMPOSITION OF THE 1939 YEAR-CLASS, AGE 7, IN 1946-47

Length mm.	Pacific Northwest			San Francisco			Monterey[1]			Monterey[2]			San Pedro			California			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
222																					
224																					
226							1	--	1	1	--	1				1	--	1	1	--	1
228																					
230																					
232																					
234																					
236																					
238	1	1	2																1	1	2
240	--	2	2	1	--	1										1	--	1	1	2	3
242	--	1	1	1	--	1										1	--	1	1	1	2
244	3	1	4																3	1	4
246	2	--	2				2	--	2	2	--	2				2	--	2	4	--	4
248	4	--	4				--	1	1	--	1	1				--	1	1	4	1	5
250	1	--	1	--	2	2										--	2	2	1	2	3
252	3	4	7				--	1	1	--	1	1	1	--	1	1	1	2	4	5	9
254	4	4	8	1	1	2	1	3	4	1	3	4				2	4	6	6	8	14
256	3	6	9	1	1	2	--	1	1	--	1	1				1	2	3	4	8	12
258	2	1	3				1	1	2	1	1	2				1	1	2	3	2	5
260	2	2	4	--	1	1	--	2	2	--	2	2				--	3	3	2	5	7
262	--	5	5		2	2										--	2	2	--	7	7
264	1	1	3																1	1	3
266	1	1	2																1	1	2
268	1	2	3					1	1		1	1				--	1	1	1	3	4
270																					
272	--	1	1				1	--	1	1	--	1				1	--	1	1	1	2
274				--	1	1										--	1	1	--	1	1
Totals	28	32	61[3]	4	8	12	6	10	16	6	10	16	1	--	1	11	18	29	39	50	90[3]

[1] Includes samples of fish caught locally; excludes six samples from boats which fished in Southern California waters and made deliveries in Monterey.

[2] Combined total of samples of local and Southern California fish taken in Monterey.

[3] Includes one fish, sex unknown.

TABLE 87

LENGTH COMPOSITION OF THE 1938 AND 1937 YEAR-CLASSES IN 1946-47

Length mm.	1938 Year-class, age 8																		1937 Year-class, age 9								
	Pacific Northwest			San Francisco			Monterey[1]			Monterey[2]			San Pedro			California			Grand Total			Pacific Northwest			California[3]			Grand Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
240	1	--	1																1	--	1									
242													--	1	1	--	1	1	--	1	1									
244																									1	--	1	1	--	1
246																														
248																														
250	--	2	2																--	2	2				1	--	1	1	--	1
252	--	--	--	1	1	2										1	1	2	1	1	2				--	--	--	--	--	--
254	--	1	1																--	1	1	1	--	1				1	--	1
256																														
258	1	--	1																1	--	1	--	1	1				--	1	1
260	--	1	1																--	1	1									
262							--	1	1	--	1	1				--	1	1	--	1	1				--	1	1	--	1	1
264																														
266																														
268																						1	1	2				1	1	2
270	--	1	1																--	1	1									
Totals	2	5	7	1	1	2	--	1	1	--	1	1	--	1	1	1	3	4	3	8	11	2	2	4	2	1	3	4	3	7

[1] Includes samples of fish caught locally; excludes six samples from boats which fished in Southern California waters and made deliveries in Monterey.
[2] Combined total of samples of local and Southern California fish taken in Monterey.
[3] Year-class represented in California at San Francisco only.

TABLE 88

AGE (YEAR-CLASS) COMPOSITION OF THE SARDINE CATCH IN THE 1941-42 SEASON

(Numbers of Fish Are Given in Thousands, i.e., 000 Omitted)

	Catch		Number of fish by age (year-class)											
	Tons	Number	0	1	2	3	4	5	6	7	8	9	10	11
			1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930
Pacific Northwest—														
British Columbia	60,460	406,000		3,695	94,273	52,496	113,518	87,655	29,597	14,413	6,658	2,964		731
Washington[1]	17,090	151,500		4,287	59,600	22,801	32,739	16,711	6,772	4,287	2,712	455	909	227
Oregon[1]	16,500	147,200		3,179	85,243	27,011	16,413	10,584	1,060	1,590	1,060			1,060
Totals, Pacific Northwest	94,050	704,700		11,161	239,116	102,308	162,670	114,950	37,429	20,290	10,430	3,419	909	2,018
California—														
San Francisco														
"July"														
"August"	38,341	327,314		3,666	214,718	93,219	14,140	1,047	524					
"September"	46,446	359,930		3,635	197,242	134,974	19,076	5,003						
"October"	51,963	382,353			162,691	162,691	46,380	7,303	1,644	1,644				
"November"	49,195	370,295		5,258	124,901	164,485	52,767	19,366	1,740	889	889			
"December"														
"January"														
"February"														
Totals, San Francisco	185,945	1,439,892		12,559	699,552	555,369	132,363	32,719	3,908	2,533	889			
Monterey														
"July"														
"August"	39,008	403,629		62,401	246,617	80,524	11,584	2,503						
"September"	56,452	518,338		54,218	345,939	100,869	12,699	2,903	1,710					
"October"	64,835	607,672		63,988	380,585	139,035	21,998	2,066						
"November"	62,959	580,506		39,126	350,625	155,750	26,761	6,850	697	697				
"December"	5,511	53,022		10,779	27,158	10,779	3,447	859						
"January"	16,490	169,523		19,071	102,985	34,329	10,595	2,543						
"February"	3,901	29,458		2,881	8,646	10,566	4,805	1,600	639	321				
Totals, Monterey	249,156	2,362,148		252,464	1,462,555	531,852	91,889	19,324	3,046	1,018				

San Pedro														
"September"	4,508	50,610		7,156	27,557	13,301	1,908	582	106					
"October"	49,933	508,151		71,853	276,688	133,542	19,157	5,844	1,067					
"November"	23,890	235,599		26,411	115,820	81,164	9,447	2,757						
"December"	21,366	213,010		21,642	104,247	79,069	7,051	1,001						
"January"	20,638	220,264		33,171	118,260	62,489	5,639	705						
"February"	20,771	219,086		22,040	117,583	66,580	7,822	3,681	1,380					
"March"	7,659	71,067		5,941	26,721	28,576	6,126	2,409	1,109	185				
Totals, San Pedro	148,765	1,517,787		188,214	786,876	464,721	57,150	16,979	3,662	185				
San Diego[2]	1,540	15,978		1,949	8,165	5,017	607	192	48					
Totals, California	585,406	5,335,805		455,186	2,957,148	1,556,959	282,009	69,214	10,664	3,736	889			
Grand totals, Pacific Coast	679,456	6,040,505		466,347	3,196,264	1,659,267	444,679	184,164	48,093	24,026	11,319	3,419	909	2,018

[1] Total number of fish caught in Washington and Oregon was estimated using the average weight per fish as calculated from British Columbia samples.
[2] All values for San Diego, except tons landed, were prorated from San Pedro totals.

TABLE 89

AGE (YEAR-CLASS) COMPOSITION OF THE SARDINE CATCH IN THE 1942-43 SEASON

(Numbers of Fish Are Given in Thousands, i.e., 000 Omitted)

	Catch		Number of fish by age (year-class)											
	Tons	Number	0	1	2	3	4	5	6	7	8	9	10	11
			1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931
Pacific Northwest—														
British Columbia	65,880	365,000		3,248	45,698	170,272	56,575	50,042	27,740	6,534	3,248	548		1,095
Washington[1]	570	3,150			230	2,526	230	98	66					
Oregon[1]	1,880	10,429			760	8,365	760	326	218					
Totals, Pacific Northwest	68,330	378,579		3,248	46,688	181,163	57,565	50,466	28,024	6,534	3,248	548		1,095
California—														
San Francisco														
"July"														
"August"	28,533	175,698			17,781	85,196	49,617	15,918	6,237	633	316			
"September"	31,311	197,140			15,239	111,877	48,575	14,983	5,421	1,045				
"October"	19,046	119,030		607	5,118	66,895	30,436	12,058	3,618	298				
"November"	15,245	96,791			7,027	45,637	32,338	8,024	3,262	503				
"December"	10,267	67,560		385	5,439	31,064	17,471	9,904	2,527	385	385			
"January"	10,727	70,077			5,809	27,596	25,053	8,718	2,537	364				
"February"	504	3,296			273	1,298	1,179	410	119	17				
Totals, San Francisco	115,633	729,592		992	56,686	369,563	204,669	70,015	23,721	3,245	701			
Monterey														
"July"														
"August"	20,275	141,957			39,152	75,209	24,033	3,563						
"September"	56,295	409,994		8,405	89,133	227,013	74,455	6,273	3,690	1,025				
"October"	14,150	108,613		9,319	26,806	50,342	17,943	3,030	934	239				
"November"	22,016	155,521		1,944	24,495	74,261	40,047	10,886	3,499	389				
"December"	25,301	185,825		21,890	24,027	87,524	39,469	10,759	1,803	353				
"January"	17,460	121,775			12,323	54,726	36,679	11,167	5,443	1,437				
"February"	26,573	208,684		6,532	41,382	104,551	37,479	13,502	4,800	438				
Totals, Monterey	182,070	1,332,369		48,090	257,318	673,626	270,105	59,180	20,169	3,881				

San Pedro													
"September"													
"October"	50,820	440,383		8,235	174,260	199,009	50,072	7,663	572	572			
"November"	55,600	507,129		61,261	177,749	183,226	72,164	9,686	3,043				
"December"	47,842	454,519		68,496	182,626	143,037	52,724	6,091	1,545				
"January"	31,274	315,467		63,913	118,679	90,791	33,976	5,079	2,524	505			
"February"	15,050	151,559		24,552	52,227	53,652	19,127	1,713	288				
"March"	746	7,280		2,548	1,274	2,184	1,092	182					
Totals, San Pedro	201,332	1,876,337		229,005	706,815	671,899	229,155	30,414	7,972	1,077			
San Diego[2]	2,848	26,542		3,477	9,927	9,422	3,158	425	106	27			
Totals, California	501,883	3,964,840		281,564	1,030,746	1,724,510	707,087	160,034	51,968	8,230	701		
Grand totals, Pacific Coast	570,213	4,343,419		284,812	1,077,434	1,905,673	764,652	210,500	79,992	14,764	3,949	548	1,095

[1] Total number of fish caught in Washington and Oregon was estimated using the average weight per fish as calculated from British Columbia samples.
[2] All values for San Diego, except tons landed, were prorated from San Pedro totals.

TABLE 90

AGE (YEAR-CLASS) COMPOSITION OF THE SARDINE CATCH IN THE 1943-44 SEASON

(Numbers of Fish Are Given in Thousands, i.e., 000 Omitted)

	Catch		Number of fish by age (year-class)											
	Tons	Number	0	1	2	3	4	5	6	7	8	9	10	11
			1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932
Pacific Northwest—														
British Columbia	83,740	425,000		1,870		55,292	178,330	91,970	62,135	24,225	7,437	2,465	638	638
Washington[1]	10,540	54,023		783		9,395	27,401	12,528	3,133	783				
Oregon[1]	1,820	9,310		135		1,619	4,722	2,159	540	135				
Totals, Pacific Northwest	96,100	488,333		2,788		66,306	210,453	106,657	65,808	25,143	7,437	2,465	638	638
California—														
San Francisco														
"July"	7,432	41,124		226	905	14,007	19,431	4,972	1,131	226	226			
"August"	43,684	231,306		2,336	2,660	53,408	119,146	41,728	8,350	3,007	671			
"September"	45,331	268,482		564	7,705	99,768	109,165	39,682	8,269	2,765	564			
"October"	3,328	18,860			1,334	4,000	9,336	3,048	571	571				
"November"	9,692	60,746		7,198	2,703	16,195	20,472	10,576	2,703	899				
"December"	2,100	13,201		1,155	660	4,290	5,281	825	495	495				
"January"	14,316	83,074			557	14,397	40,432	16,889	8,307	2,218	274			
"February"														
Totals, San Francisco	125,883	716,793		11,479	16,524	206,065	323,263	117,720	29,826	10,181	1,735			
Monterey														
"July"	6,861	45,933		3,404	3,574	15,649	17,183	5,103	1,020					
"August"	46,624	297,098		38,326	16,251	92,516	117,502	30,423	1,248	832				
"September"	25,887	174,301		23,931	21,491	53,406	52,778	17,169	4,288	1,238				
"October"	16,286	154,207		65,399	13,169	36,115	31,227	4,873	2,930	494				
"November"	55,296	401,240		89,757	25,800	109,699	123,180	41,649	8,225	1,164	602	1,164		
"December"	28,158	210,054		35,583	13,632	51,169	73,099	23,400	11,217	1,954				
"January"	30,577	199,463		10,013	12,526	39,593	83,695	36,582	14,042	2,513	499			
"February"	1,629	10,670			222	3,557	4,668	1,334	889					
Totals, Monterey	211,318	1,492,966		266,413	106,665	401,704	503,332	160,533	43,859	8,195	1,101	1,164		

San Pedro														
"September"	26,657	235,886		27,599	101,006	72,771	28,235	6,275						
"October"	31,197	280,045		29,545	116,415	76,732	45,871	8,821	2,661					
"November"	19,961	193,579		44,175	73,618	47,601	19,416	7,201	1,568					
"December"	25,936	224,551		32,695	60,270	69,184	50,097	8,488	2,964	853				
"January"	27,192	270,816		51,157	97,033	72,281	41,408	7,718	1,219					
"February"	3,974	37,802		6,672	15,786	11,341	2,669	1,111	223					
"March"														
Totals, San Pedro	134,917	1,242,679		191,843	464,128	349,910	187,696	39,614	8,635	853				
San Diego[2]	2,690	25,264		4,093	9,373	7,049	3,739	808	177	25				
Totals, California	474,808	3,477,702		473,828	596,690	964,728	1,018,030	318,675	82,497	19,254	2,836	1,164		
Grand totals, Pacific Coast	570,908	3,966,035		476,616	596,690	1,031,034	1,228,483	425,332	148,305	44,397	10,273	3,629	638	638

[1] Total number of fish caught in Washington and Oregon was estimated using the average weight per fish as calculated from British Columbia samples.
[2] All values for San Diego, except tons landed, were prorated from San Pedro totals.

TABLE 91

AGE (YEAR-CLASS) COMPOSITION OF THE SARDINE CATCH IN THE 1944-45 SEASON

(Numbers of Fish Are Given in Thousands, i.e., 000 Omitted)

	Catch		Number of fish by age (year-class)											
	Tons	Number	0	1	2	3	4	5	6	7	8	9	10	11
			1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933
Pacific Northwest—														
British Columbia	53,380	268,100		7,105	18,794	10,161	59,411	103,594	47,212	13,700	6,086	1,528		509
Washington[1]	20	63		2	4	2	14	24	11	3	2	1		
Oregon														
Totals, Pacific Northwest	53,400	268,163		7,107	18,798	10,163	59,425	103,618	47,223	13,703	6,088	1,529		509
California—														
San Francisco														
"July"	247	1,366			34	91	443	526	202	60	10			
"August"	21,416	101,297			2,502	6,726	32,871	39,020	14,992	4,416	770			
"September"	28,313	138,670			22,187	11,094	35,916	39,701	20,731	7,876	1,165			
"October"	35,779	172,833			26,858	16,073	34,135	58,556	27,964	7,933	1,314			
"November"	21,106	104,796			11,810	8,384	30,862	32,770	15,248	4,192	1,530			
"December"	20,434	106,543			6,179	4,634	25,091	42,074	17,761	9,259	1,545			
"January"	7,303	57,441		7,232	9,788	1,063	12,551	17,020	7,232	1,918	637			
"February"	1,721	10,435		2,159	1,620		1,978	2,879	1,260	360	179			
Totals, San Francisco	136,319	633,381		9,391	80,978	48,065	173,847	232,546	105,390	36,014	7,150			
Monterey														
"July"														
"August"	23,730	201,873		43,019	85,010	22,266	22,630	21,520	8,297	384	747			
"September"	53,565	367,155		37,964	181,485	40,314	45,490	43,618	14,062	3,745	477			
"October"	82,664	626,071		102,300	309,467	61,918	56,659	71,685	18,219	3,882	1,941			
"November"	43,358	261,500		11,506	90,714	26,542	52,222	59,282	13,703	6,642	889			
"December"	11,746	72,780		10,400	9,483	7,031	14,068	21,405	8,559	1,834				
"January"	15,953	98,832		9,251	23,136	10,931	20,191	24,392	7,571	3,360				
"February"	3,083	20,305		5,415	2,031	1,015	4,737	5,076	2,031					
Totals, Monterey	234,099	1,648,516		219,855	699,326	170,017	215,997	246,978	72,442	19,847	4,054			

San Pedro														
"September"														
"October"	74,667	586,669		37,840	169,312	250,508	97,974	23,584	6,219	1,232				
"November"	28,044	227,695		21,335	64,415	96,611	28,849	15,734	751					
"December"	42,722	350,066		48,624	136,736	110,586	37,177	14,668	1,820	455				
"January"	21,612	187,216		50,043	64,702	50,885	14,659	6,365	281	281				
"February"	10,856	91,431		33,226	19,557	12,727	10,835	10,130	3,301	1,417	238			
"March"														
Totals, San Pedro	177,901	1,443,077		191,068	454,722	521,317	189,494	70,481	12,372	3,385	238			
San Diego[2]	2,764	22,831		3,685	7,155	7,703	2,801	1,201	210	69	7			
Totals, California	551,083	3,807,805		423,999	1,242,181	747,102	582,139	551,206	190,414	59,315	11,449			
Grand totals, Pacific Coast	604,483	4,075,968		431,106	1,260,979	757,265	641,564	654,824	237,637	73,018	17,537	1,529		509

[1] Total number of fish caught in Washington was estimated using the average weight per fish as calculated from British Columbia samples.
[2] All values for San Diego, except tons landed, were prorated from San Pedro totals.

TABLE 92

AGE (YEAR-CLASS) COMPOSITION OF THE SARDINE CATCH IN THE 1945-46 SEASON

(Numbers of Fish Are Given in Thousands, i.e., 000 Omitted)

	Catch		Number of fish by age (year-class)									
	Tons	Number	0	1	2	3	4	5	6	7	8	9
			1945	1944	1943	1942	1941	1940	1939	1938	1937	1936
Pacific Northwest—												
British Columbia	34,300	146,400	.....	1,962	14,245	18,666	2,459	32,911	46,672	22,106	5,900	1,479
Washington	2,390	10,868	.....	.....	.....	988	495	3,128	4,446	1,317	494	.....
Oregon	90	409	.....	.....	.....	37	19	118	167	49	19	.....
Totals, Pacific Northwest	36,780	157,677	.....	1,962	14,245	19,691	2,973	36,157	51,285	23,472	6,413	1,479
California—												
San Francisco												
"July"	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
"August"	12,397	69,939	.....	.....	17,128	27,122	17,128	1,427	4,280	2,854	.....	.....
"September"	29,656	163,939	.....	1,016	46,116	55,330	23,575	18,443	10,246	7,181	1,016	1,016
"October"	33,275	174,650	.....	3,545	48,762	49,653	19,508	27,473	15,963	7,982	1,764	.....
"November"	6,941	37,621	.....	824	8,788	12,355	5,218	4,943	4,119	1,099	275	.....
"December"	623	3,394	.....	74	793	1,115	471	446	371	99	25	.....
"January"	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
"February"	530	2,761	.....	.....	166	939	221	552	497	331	55	.....
Totals, San Francisco	83,422	452,304	.....	5,459	121,753	146,514	66,121	53,284	35,476	19,546	3,135	1,016
Monterey												
"July"	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
"August"	28,932	191,983	.....	3,398	48,552	80,172	42,908	7,910	4,512	3,398	1,133	.....
"September"	32,587	196,300	.....	15,704	65,760	58,890	33,371	11,778	7,852	1,963	982	.....
"October"	58,139	364,442	.....	12,829	115,382	142,861	45,774	31,123	14,651	1,822	.....	.....
"November"	11,449	73,026	.....	14,204	19,878	21,908	6,894	3,651	4,871	810	810	.....
"December"	3,938	27,098	.....	2,504	5,921	9,110	4,555	2,049	1,821	910	228	.....
"January"	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
"February"	7,167	39,944	.....	499	3,495	8,488	7,989	8,488	8,988	1,498	499	.....
Totals, Monterey	142,212	892,793	.....	49,138	258,988	321,429	141,491	64,999	42,695	10,401	3,652	.....

San Pedro												
"September"				4,324	121,399	114,865	73,705	10,826				
"October"	39,650	325,119		33,027	144,218	90,343	53,875	19,094	3,475			
"November"	39,853	344,032		125,408	155,162	75,933	95,704	33,000	3,295		3,295	
"December"	55,627	491,797		8,306	31,729	41,544	19,641	6,044	4,536	754		
"January"	14,080	112,554		12,102	57,484	40,344	27,229	10,075	4,039			
"February"	18,732	151,273		8,110	18,339	6,699	1,410		353			
"March"	4,114	34,911										
Totals, San Pedro	172,056	1,459,686		191,277	528,331	369,728	271,564	79,039	15,698	754	3,295	
San Diego[1]	945	802		94	302	217	135	40	12	1	1	
Totals, California	398,635	2,805,585		245,968	909,374	837,888	479,311	197,362	93,881	30,702	10,083	1,016
Grand totals, Pacific Coast	435,415	2,963,262		247,930	923,619	857,579	482,284	233,519	145,166	54,174	16,496	2,495

[1] All values for San Diego, except tons landed, were prorated from San Pedro totals.

TABLE 93

AGE (YEAR-CLASS) COMPOSITION OF THE SARDINE CATCH IN THE 1946-47 SEASON

(Numbers of Fish Are Given in Thousands, i.e., 000 Omitted)

	Catch		Number of fish by age (year-class)									
	Tons	Number	0	1	2	3	4	5	6	7	8	9
			1946	1945	1944	1943	1942	1941	1940	1939	1938	1937
Pacific Northwest—												
British Columbia	3,990	15,820				1,186	1,977	989	5,142	6,328	198	
Washington	6,140	28,108				891	2,679	3,123	12,716	6,470	1,338	891
Oregon	3,910	17,999				570	1,715	2,000	8,143	4,143	857	571
Totals, Pacific Northwest	14,040	61,927				2,647	6,371	6,112	26,001	16,941	2,393	1,462
California—												
San Francisco												
"July"												
"August"	405	4,371		3,278	874		219					
"September"	97	586		440	117		29					
"October"												
"November"												
"December"	2,122	11,388			1,708	3,416	1,708	1,139	570	1,708		1,139
"January"	219	1,181		71	165	165	331	71	94	213	47	24
"February"												
Totals, San Francisco	2,843	17,526		3,789	2,864	3,581	2,287	1,210	664	1,921	47	1,163
Monterey												
"July"												
"August"	9,027	47,448		5,831	6,363	15,904	10,605	5,566	2,121	1,058		
"September"	8,590	46,052		9,740	5,020	14,760	6,788	5,314	2,952	1,478		
"October"												
Local[1]	4,535	51,527		41,690	7,961	938	469			469		
Southern California[2]	1,430	12,916		8,395	2,368	1,076	861	216				
Totals, "October"	5,965	64,443		50,085	10,329	2,014	1,330	216		469		

"November"												
Local[1]	83	916		595	229	92						
Southern California[2]	220	1,885		1,225	346	157	126	31				
Totals, "November"	303	2,801		1,820	575	249	126	31				
"December"												
Local[1]	2,069	16,763		9,555	1,844	2,179	1,509	670	168	838		
Southern California[2]	68	574		373	105	48	38	10				
Totals, "December"	2,137	17,337		9,928	1,949	2,227	1,547	680	168	838		
"January"	357	4,495	899	2,801	311	242	104		69	35	34	
"February"	243	3,879	1,474	2,172	78	78	77					
Totals, Monterey Local[1]	24,904	171,080	2,373	72,384	21,806	34,193	19,552	11,550	5,310	3,878	34	
Southern California[2]	1,718	15,375		9,993	2,819	1,281	1,025	257				
Totals, combined	26,622	186,455	2,373	82,377	24,625	35,474	20,577	11,807	5,310	3,878	34	
San Pedro												
"September"	15,981	138,338		44,268	37,351	47,035	5,534	4,150				
"October"	81,776	664,172		272,311	219,177	112,909	46,492	13,283				
"November"	47,606	407,515		147,031	123,803	98,007	33,539	5,135				
"December"	28,928	238,316		122,923	51,429	35,128	17,564	8,770	1,263		1,239	
"January"	8,111	67,663		18,607	28,757	13,113	2,957	3,383	846			
"February"	11,385	96,008	643	54,408	20,478	13,441	4,484	1,277	643	634		
"March"												
Totals, San Pedro	193,787	1,612,012	643	659,548	480,995	319,633	110,570	35,998	2,752	634	1,239	
San Diego[3]	4,757	39,564	40	16,395	11,687	7,683	2,437	1,076	166	40	40	
Totals, California	228,009	1,855,557	3,056	762,109	520,171	366,371	135,871	50,091	8,892	6,473	1,360	1,163
Grand totals, Pacific Coast	242,049	1,917,484	3,056	762,109	520,171	369,918	142,242	56,203	34,893	23,414	3,753	2,625

[1] Fish caught north of Point Conception.
[2] Fish caught south of Point Conception.
[3] All values for San Diego, except tons landed, were prorated from San Pedro totals.

TABLE 94

NUMBER OF FISH, MEAN LENGTH AND STANDARD ERROR OF THE MEAN FOR EACH YEAR-CLASS IN 1941-42 BY REGION OF CATCH

Year-Class	Pacific Northwest												California								
	British Columbia			Washington			Oregon			Total			San Francisco			Monterey			San Pedro		
	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.
1940																					
Male	4	184	4.73	4	158	4.61	3	171	.71	11	171	4.17	15	179	2.30	213	176	.56	248	178	.52
Female	6	169	3.58	5	160	7.50	3	169	4.81	14	166	3.28	6	182	3.68	234	175	.56	171	180	.60
Total[1]	10	175	3.60	19	160	2.50	6	170	2.24	35	166	2.60	21	180	1.92	447	175	.40	419	179	.39
1939																					
Male	119	193	1.07	44	190	2.04	79	190	1.04	242	191	.74	640	198	.32	1284	194	.25	873	193	.24
Female	126	194	1.14	35	196	1.99	82	193	.91	243	194	.72	546	200	.38	1203	196	.28	883	195	.28
Total[2]	255	193	.76	264	188	.73	161	192	.70	680	191	.45	1186	199	.25	2487	195	.19	1756	194	.19
1938																					
Male	77	214	1.42	32	212	2.37	28	208	2.54	137	212	1.12	450	208	.36	466	205	.36	551	201	.37
Female	65	217	1.98	37	220	2.24	23	212	3.54	125	217	1.40	412	211	.38	437	207	.46	539	204	.39
Totals[1]	142	216	1.18	101	216	1.28	51	210	2.12	294	215	.82	862	209	.27	903	206	.29	1090	202	.27
1937																					
Male	165	228	.52	47	227	1.03	17	224	2.15	229	227	.46	101	215	.86	89	212	.98	70	209	1.59
Female	142	233	.56	45	232	1.06	14	229	1.27	201	232	.47	85	219	1.22	75	218	1.07	70	215	1.49
Totals[1]	307	230	.40	145	228	.75	31	226	1.39	483	229	.36	186	217	.71	164	215	.75	140	212	.98
1936																					
Male	112	233	.52	22	236	1.92	8	226	2.26	142	233	.69	20	214	2.06	20	214	1.60	19	209	2.64
Female	125	239	.75	21	235	2.06	12	241	3.38	158	239	.70	24	226	2.46	16	222	2.48	24	216	3.32
Totals[1]	237	236	.56	74	235	1.17	20	235	2.70	331	236	.51	44	220	1.86	36	218	1.55	43	212	2.16
1935																					
Male	48	240	1.17	6	238	3.31	2	240	.....	56	240	1.05	3	217	7.93	2	215	1.00	6	222	4.48
Female	32	243	1.54	15	242	1.82	.....	.....	.....	47	242	1.21	2	219	2.00	4	212	4.39	5	224	4.00
Totals[1]	80	241	.94	30	243	2.16	2	240	.....	112	242	.93	5	218	4.40	6	213	2.95	11	223	2.91
1934																					
Male	18	239	2.52	5	242	4.90	.....	.....	.....	23	240	2.22	2	222	2.00	.....	.....	.....	.....	.....	.....
Female	22	250	3.07	6	251	5.02	3	250	3.11	31	250	2.13	1	220	.....	2	244	18.0	1	248	.....
Totals[1]	40	245	1.64	19	249	2.50	3	250	3.11	62	248	1.63	3	221	.43	2	244	18.0	1	248	.....

1933																	
Male	12	249	1.93	1	240		1	246		14	248	1.78	1	212			
Female	6	262	3.85	5	253	5.30	1	256		12	258	3.02					
Totals[1]	18	253	2.28	12	252	2.65	2	251	5.00	32	253	1.61	1	212			
1932																	
Male	5	252	3.80	2	253	9.00				7	252	3.35					
Female	3	259	4.10							3	259	4.10					
Totals	8	255	2.95	2	253	9.00				10	254	2.73					
1931																	
Male				2	249	9.00				2	249	9.00					
Female				2	262	2.00				2	262	2.00					
Totals				4	256	5.31				4	256	5.31					
1930																	
Male							1	266		1	266						
Female	2	269	1.00				1	258		3	265	3.68					
Totals[1]	2	269	1.00	1	254		2	262	4.00	5	263	3.10					

[1] Washington and Pacific Northwest totals include some fish, sex unknown.
[2] British Columbia, Washington and Pacific Northwest totals include some fish, sex unknown.

TABLE 95

NUMBER OF FISH, MEAN LENGTH AND STANDARD ERROR OF THE MEAN FOR EACH YEAR-CLASS IN 1942-43 BY REGION OF CATCH

Year-Class	Pacific Northwest[1]									California								
	British Columbia			Washington			Total			San Francisco			Monterey			San Pedro		
	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.
1941																		
Male	4	212	3.58				4	212	3.58	4	178	2.30	73	163	1.18	240	179	.45
Female	2	218	2.00				2	218	2.00				64	164	1.34	236	182	.51
Totals	6	214	2.59				6	214	2.59	4	178	2.30	137	164	.88	476	181	.35
1940																		
Male	38	203	1.25	3	194	3.11	41	202	1.23	94	206	.81	322	204	.42	657	197	.39
Female	46	205	1.16	3	199	6.50	49	204	1.15	111	210	.67	319	206	.58	716	199	.40
Totals[2]	84	204	.86	7	197	2.94	91	203	.84	205	208	.53	641	205	.36	1373	198	.28
1939																		
Male	155	216	1.03	30	217	1.11	185	216	.89	682	215	.28	896	213	.25	666	205	.33
Female	158	214	1.08	47	219	1.12	205	215	.88	664	218	.31	788	216	.28	635	207	.38
Totals	313	215	.75	77	218	.80	390	215	.63	1346	216	.21	1684	214	.19	1301	206	.25
1938																		
Male	52	229	1.40	3	239	3.39	55	229	1.36	398	220	.41	381	218	.45	244	209	.48
Female	52	232	1.65	4	243	6.46	56	232	1.62	338	224	.44	319	222	.53	204	212	.60
Totals	104	230	1.08	7	241	3.76	111	231	1.07	736	222	.30	700	220	.35	448	210	.39
1937																		
Male	39	237	1.49	1	250		40	237	1.47	140	224	.76	87	227	1.06	36	212	1.12
Female	53	241	1.44	2	238	4.00	55	241	1.39	116	231	.84	74	232	1.10	22	216	1.48
Totals	92	239	1.07	3	242	4.66	95	239	1.03	256	227	.59	161	229	.78	58	214	.93
1936																		
Male	24	241	1.54	1	226		25	241	1.59	46	228	1.34	23	229	2.94	5	217	3.60
Female	27	247	2.12	1	254		28	247	2.08	40	236	1.54	32	233	1.16	10	214	3.93
Totals	51	244	1.36	2	240	14.0	53	244	1.39	86	231	1.08	55	231	1.72	15	215	2.83

1935																			
Male	5	240	5.20		5	240	5.20	7	233	4.41	8	225	3.25	1	220				
Female	7	244	2.78		7	244	2.78	5	250	6.40	3	250	8.06	1	202				
Totals	12	242	2.60		12	242	2.60	12	240	4.26	11	232	4.55	2	211	9.00			
1934																			
Male	2	252	6.00		2	252	6.00	1	234										
Female	4	256	3.58		4	256	3.58	2	255	13.0									
Totals	6	255	2.95		6	255	2.95	3	248	10.3									
1933																			
Male																			
Female	1	250			1	250													
Totals	1	250			1	250													
1931																			
Male																			
Female	2	262	2.00		2	262	2.00												
Totals	2	262	2.00		2	262	2.00												

[1] Samples from British Columbia and Washington only.
[2] Washington and Pacific Northwest totals include one fish, sex unknown.

TABLE 96

NUMBER OF FISH, MEAN LENGTH AND STANDARD ERROR OF THE MEAN FOR EACH YEAR-CLASS IN 1943-44 BY REGION OF CATCH

Year-Class	Pacific Northwest[1]									California								
	British Columbia			Washington			Total			San Francisco			Monterey			San Pedro		
	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.
1942																		
Male	1	150	.....	.....	.....	.....	1	150	.....	18	171	2.33	292	164	.59	261	179	.62
Female	1	150	.....	.....	.....	.....	1	150	.....	30	175	1.93	278	163	.68	224	182	.72
Totals[2]	3	139	11.3	1	148	.....	4	141	8.31	48	173	1.53	570	164	.45	485	180	.47
1941																		
Male	.....	.....	.....	.....	.....	.....	.....	.....	.....	25	203	3.68	139	197	1.35	575	195	.38
Female	.....	.....	.....	.....	.....	.....	.....	.....	.....	26	209	2.84	116	199	1.56	537	198	.43
Totals	.....	.....	.....	.....	.....	.....	.....	.....	.....	51	206	2.32	255	198	1.03	1112	196	.29
1940																		
Male	58	223	1.27	8	218	1.36	66	222	1.14	268	221	.39	481	219	.36	403	204	.53
Female	31	230	2.30	4	218	2.66	35	229	2.16	306	225	.44	468	223	.39	431	208	.52
Totals	89	226	1.19	12	218	1.21	101	225	1.10	574	223	.31	949	221	.27	834	206	.38
1939																		
Male	157	231	.65	17	227	2.15	174	231	.62	463	226	.36	611	224	.34	237	210	.72
Female	130	237	.81	18	230	2.23	148	236	.79	496	231	.36	556	228	.37	206	216	.87
Totals	287	234	.54	35	228	1.51	322	233	.51	959	228	.26	1167	226	.26	443	213	.57
1938																		
Male	90	235	1.06	6	230	2.68	96	235	1.01	161	229	.71	188	227	.63	55	216	1.25
Female	58	245	1.14	10	238	2.33	68	244	1.08	187	235	.62	179	232	.75	42	222	1.50
Totals	148	239	.87	16	235	2.08	164	239	.82	348	232	.49	367	230	.50	97	219	1.00
1937																		
Male	49	242	1.56	2	222	8.00	51	241	1.61	40	235	1.15	54	233	1.40	12	221	2.66
Female	51	250	1.67	2	237	13.0	53	250	1.69	53	241	1.33	44	237	1.43	10	225	3.53
Totals	100	246	1.23	4	230	5.08	104	245	1.24	93	239	.96	98	235	1.01	22	223	2.14

1936																		
Male	23	245	2.04	1	234		24	244	2.01	16	241	2.74	10	231	3.54	2	233	7.0
Female	16	257	2.64				16	257	2.64	17	241	2.15	8	246	3.93			
Totals	39	250	1.85	1	234		40	249	1.86	33	241	1.70	18	237	3.20	2	233	7.0
1935																		
Male	8	248	5.29				8	248	5.29	2	227	1.00	1	244				
Female	4	262	8.32				4	262	8.32	3	249	11.6	1	224				
Totals	12	253	4.65				12	253	4.65	5	240	8.40	2	234	10.0			
1934																		
Male	3	251	10.5				3	251	10.5				1	252				
Female	1	256					1	256					1	244				
Totals	4	252	7.50				4	252	7.50				2	248	4.00			
1933																		
Male	1	260					1	260										
Female																		
Totals	1	260					1	260										
1932																		
Male	1	270					1	270										
Female																		
Totals	1	270					1	270										

[1] Samples from British Columbia and Washington only.
[2] Pacific Northwest total includes two fish, sex unknown.

TABLE 97

NUMBER OF FISH, MEAN LENGTH AND STANDARD ERROR OF THE MEAN FOR EACH YEAR-CLASS IN 1944-45 BY REGION OF CATCH

Year-Class	Pacific Northwest[1]			California								
				San Francisco			Monterey			San Pedro		
	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.
1943												
Male	5	194	4.10	20	181	2.16	210	171	.76	271	187	.55
Female	9	177	7.64	26	183	1.68	239	170	.78	275	188	.59
Totals[2]	14	183	5.44	46	182	1.37	450	170	.55	546	187	.40
1942												
Male	18	196	3.59	140	212	.93	693	202	.44	524	202	.36
Female	19	194	3.21	173	212	.84	684	205	.48	536	205	.39
Totals[2]	37	195	2.36	313	212	.62	1,379	204	.32	1,060	204	.26
1941												
Male	11	231	1.33	91	222	1.08	172	217	.92	609	204	.32
Female	9	232	5.02	94	224	1.18	179	221	.94	531	209	.36
Totals[3]	20	231	2.29	185	223	.80	352	219	.67	1,141	206	.25
1940												
Male	53	237	1.05	322	234	.49	231	232	.69	223	211	.75
Female	64	241	1.03	343	239	.46	238	237	.66	192	216	.90
Totals[2]	117	239	.76	665	236	.35	470	234	.49	415	213	.58
1939												
Male	102	239	.70	480	239	.36	288	236	.51	88	220	1.59
Female	102	245	.74	416	244	.37	248	242	.51	89	228	1.51
Totals[3]	204	242	.56	896	241	.27	537	239	.38	178	224	1.13
1938												
Male	49	243	1.18	217	241	.56	87	239	.88	16	228	3.67
Female	44	248	1.58	186	248	.57	76	247	.99	15	234	3.85
Totals	93	245	1.02	403	244	.43	163	242	.74	31	231	2.66

1937												
Male	11	242	2.46	69	246	1.02	19	241	1.75	5	235	3.00
Female	16	250	2.69	63	250	1.30	25	248	1.31	5	242	1.90
Totals	27	247	2.00	132	248	.84	44	245	1.16	10	239	2.00
1936												
Male	7	243	3.67	12	246	3.19	6	241	5.01			
Female	5	262	3.60	14	254	1.72	2	239	3.00	1	244	
Totals	12	250	3.80	26	251	1.80	8	240	3.78	1	244	
1935												
Male	2	259	1.00									
Female	1	248										
Totals	3	255	3.68									
1933												
Male	1	232										
Female												
Totals	1	232										

[1] Samples from British Columbia only.
[2] Monterey totals include one or two fish, sex unknown.
[3] Monterey and San Pedro totals include one fish, sex unknown.

TABLE 98

NUMBER OF FISH, MEAN LENGTH AND STANDARD ERROR OF THE MEAN FOR EACH YEAR-CLASS IN 1945-46 BY REGION OF CATCH

Year-Class	Pacific Northwest[1]									California								
	British Columbia			Washington			Total			San Francisco			Monterey			San Pedro		
	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.
1944																		
Male	3	209	14.7				3	209	14.7	4	184	7.16	37	173	1.53	54	181	1.46
Female	1	176	-----				1	176	-----	4	180	.58	36	172	1.72	51	182	1.12
Totals	4	200	13.2				4	200	13.2	8	182	3.48	73	172	1.15	105	182	1.08
1943																		
Male	17	209	1.55				17	209	1.55	82	209	1.31	129	209	.83	170	198	.63
Female	12	213	3.80				12	213	3.80	65	212	1.27	126	210	.90	167	203	.68
Totals	29	211	1.81				29	211	1.81	147	210	.93	255	209	.61	337	200	.48
1942																		
Male	17	223	2.20	2	234	2.00	19	223	2.20	81	221	1.27	156	217	.74	124	204	.88
Female	21	227	2.32	4	246	9.35	25	227	2.32	110	223	.82	164	220	.85	118	209	1.07
Totals	38	225	1.61	6	242	6.45	44	225	1.61	191	222	.71	320	219	.57	242	206	.71
1941																		
Male	1	234	-----	1	238	-----	2	236	2.00	40	220	1.63	76	217	1.20	75	211	.95
Female	4	244	4.96	2	253	3.00	6	247	3.76	40	225	1.63	74	221	1.29	76	215	.95
Totals	5	242	4.30	3	248	5.23	8	244	3.32	80	222	1.17	150	219	.88	151	213	.68
1940																		
Male	38	243	1.25	12	253	2.54	50	245	1.26	36	237	2.20	33	231	2.54	20	214	2.38
Female	29	247	1.29	7	260	3.43	36	250	1.45	42	243	2.05	38	240	2.10	24	222	3.46
Totals	67	245	.94	19	255	2.22	86	247	.98	78	240	1.55	71	236	1.72	44	218	2.22

1939																			
Male	51	246	1.16	18	254	1.99	69	248	1.09	20	244	2.34	21	243	2.24	8	222	6.80
Female	44	249	1.09	9	256	1.91	53	250	1.03	35	249	2.40	37	250	1.57	6	227	7.70
Totals	95	247	.80	27	255	1.45	122	249	.76	55	247	1.77	58	247	1.35	14	224	4.94
1938																			
Male	25	248	1.51	4	250	3.81	29	248	1.36	7	247	1.71	8	245	2.42				
Female	20	252	2.02	4	254	4.73	24	253	1.83	21	254	1.65	7	249	3.18	1	248	------	
Totals	45	250	1.27	8	252	2.87	53	250	1.16	28	253	1.42	15	247	1.98	1	248	------	
1937																			
Male	7	252	2.28	1	252	------	8	252	1.96	1	242	------	2	241	9.00				
Female	5	258	4.60	2	256	6.00	7	257	3.43	4	251	5.54	4	249	3.46	1	254	------	
Totals	12	254	2.35	3	255	3.68	15	255	1.92	5	249	4.70	6	246	3.58	1	254	------	
1936																			
Male	2	263	4.20				2	263	4.20	1	238	------							
Female	1	232	------				1	232	------										
Totals	3	253	12.7				3	253	12.7	1	238	------							

[1] Samples from British Columbia and Washington only.

TABLE 99

NUMBER OF FISH, MEAN LENGTH AND STANDARD ERROR OF THE MEAN FOR EACH YEAR-CLASS IN 1946-47 BY REGION OF CATCH

Year-Class	Pacific Northwest[1]									California								
	British Columbia			Washington			Total			San Francisco			Monterey[2]			San Pedro		
	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.	No.	M.	S.E.
1946																		
Male													19	115	.24	1	152	
Female													26	116	.44			
Totals													45	115	.27	1	152	
1945																		
Male										10	171	2.93	150	183	.91	192	194	.55
Female										8	166	2.49	174	184	.81	205	196	.56
Totals										18	168	1.99	324	184	.60	397	195	.39
1944																		
Male										9	208	3.74	40	206	2.40	131	202	.46
Female										5	212	1.30	43	209	2.25	152	207	.80
Totals										14	209	2.50	83	207	1.55	283	205	.57
1943																		
Male	2	229	7.00	3	240	6.36	5	236	5.00	8	231	1.89	65	229	.98	91	211	1.22
Female	4	236	5.77	1	232		5	236	4.50	5	239	2.70	70	234	.77	95	215	1.36
Totals	6	234	4.38	4	238	4.96	10	236	3.13	13	234	1.84	135	232	.66	186	213	.93
1942																		
Male	3	237	4.80	5	244	2.90	8	241	2.57	12	236	1.63	47	232	1.53	35	217	1.51
Female	7	243	1.96	7	247	2.12	14	245	1.55	6	242	2.06	30	236	1.60	24	224	2.46
Totals	10	241	2.00	12	246	1.75	22	244	1.35	18	238	1.51	77	234	1.15	59	220	1.39
1941																		
Male	3	245	8.20	8	255	4.24	11	252	3.79	2	242	2.00	22	231	1.92	15	220	2.78
Female	2	247	7.00	6	256	1.52	8	254	2.26	3	246	6.08	21	243	2.64	11	225	2.72
Totals	5	246	5.00	14	255	2.44	19	253	2.36	5	244	3.50	43	237	1.85	26	222	2.00

1940																	
Male	14	247	1.94	24	251	1.08	38	249	1.02	2	250	2.00	13	238	2.77	2	232 6.00
Female	12	253	3.08	33	258	1.20	45	257	1.24	3	251	.57	8	251	3.85	2	240 8.00
Totals	26	250	1.88	57	255	.96	83	253	.91	5	251	.80	21	243	2.59	4	236 4.73
1939																	
Male	10	251	2.80	18	254	1.41	28	253	1.35	4	248	4.04	6	250	6.26	1	252 ----
Female	22	255	1.70	10	258	2.94	32	256	1.44	8	258	2.80	10	256	1.73		
Totals[3]	32	254	1.47	29	256	1.40	61	255	1.01	12	255	2.66	16	254	2.58	1	252 ----
1938																	
Male				2	249	9.00	2	249	9.00	1	252	----					
Female	1	250	----	4	258	4.38	5	257	3.80	1	252	----	1	262	----	1	242 ----
Totals	1	250	----	6	255	4.11	7	255	3.59	2	252	----	1	262	----	1	242 ----
1937																	
Male				2	261	7.00	2	261	7.00	2	247	3.00					
Female				2	263	5.00	2	263	5.00	1	262	----					
Totals				4	262	3.58	4	262	3.58	3	252	5.36					

[1] Samples from British Columbia and Washington only.
[2] Includes samples of fish caught locally; excludes six samples from boats which fished in Southern California waters and made deliveries in Monterey.
[3] Washington and Pacific Northwest totals include one fish, sex unknown.

TABLE 100

CALENDAR DATES OF LUNAR MONTHS FOR SEASONS 1941-42 THROUGH 1946-47

	1941–42			1942–43			1943–44		
"July"							July	17–August	15
"August"	August	8–September	5	August	1–August	26	August	16–September	13
"September"	September	6–October	5	August	27–September	24	September	14–October	13
"October"	October	6–November	3	September	25–October	24	October	14–November	12
"November"	November	4–December	3	October	25–November	22	November	13–December	11
"December"	December	4–January	1	November	23–December	22	December	12–January	10
"January"	January	2–January	31	December	23–January	20	January	11–February	8
"February"	February	1–March	1	January	21–February	18			
"March"	March	2–March	31						

	1944–45			1945–46			1946–47		
"July"									
"August"	August	4–September	1				August	12–September	10
"September"	September	2–October	1	August	23–September	20	September	11–October	9
"October"	October	2–October	31	September	21–October	20	October	10–November	8
"November"	November	1–November	29	October	21–November	19	November	9–December	7
"December"	November	30–December	29	November	20–December	18	December	8–January	6
"January"	December	30–January	27	December	19–January	17	January	7–February	5
"February"	January	28–February	26	January	18–February	16	February	6–March	7

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